

## UNITED STATES DEPARTMENT OF AGRICULTURE

## PRODUCTION AND MARKETING ADMINISTRATION

## FIELD SERVICE BRANCH

Washington, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

**ILLINOIS COMMITTEEMAN'S PRACTICE HANDBOOK**

The 1946 Farm Program is designed to assist the farmers of Illinois to the fullest possible extent in protecting their soils against damage from erosion and loss of fertility.

The county committee will designate those practices which will be approved for payment in the county in order that the available funds will be used most effectively to bring about increased conservation. Written approval by the county committee must be obtained for each practice to be performed on any individual's farm, prior to the carrying out of such practice except that practices performed before April 1, 1946, may be approved retroactively by the county committee.

**A. FUNDS AVAILABLE FOR CONSERVATION PRACTICES ON INDIVIDUAL FARMS**

The county and community committeemen will determine for each farm, on the basis of the conservation needs and farmer's intentions, maximum payments for each practice approved for the farm. The sum of the maximum payments approved cannot exceed the county limits approved for this purpose by the State Committee. Official notice of such approval will be forwarded to the operator and other parties interested in the operation of the farm.

**B. CONSERVATION PRACTICES**

The practices available for 1946 are those which are most needed in order to conserve and improve soil fertility, improve pasture land, prevent wind and water erosion, and promote conservation and better utilization of water. Assistance will be available for carrying out the following practices during the program year January 1, 1946, through December 31, 1946. To qualify for payment, each practice must be carried out in accordance with the specifications for that practice and be in keeping with good farming practices for the locality.

Except as stated below, the total extent of any practice performed shall be reduced for purposes of payment by the percentage of the total cost of the practice which the county committee determines was furnished by a State or Federal agency. The extent of any practice shall not be reduced because a portion of the cost is represented by materials or services furnished by the F. S. B., or equipment furnished by S. C. S., or materials or services furnished by an agency of a State or political subdivision thereof to another agency or political subdivision of the same State, or trees purchased from a Clark-McNary Cooperative State Nursery.



(1) **Standard terraces.**—Construction of standard terraces with a settled minimum ridge cross-section of at least 8 square feet. Proper outlets must be provided. The terrace and outlets must conform to the minimum specifications required by the State Committee.—**\$1 per 100 linear feet.**

(2) **Contouring intertilled crops.**—Contour farming of intertilled crops provided the crop stubble is left standing or a good stand of a winter cover crop is obtained. If there is danger of erosion in waterways, such waterways must be permanently established in sod. Contour lines must be laid out with an approved instrument. No credit will be given for this practice for any acreage qualifying under Practice (4), Contour Stripcropping.—**\$1.50 per acre.**

(3) **Contour farming of drilled or close-sown crops.**—Contour seeding of small grain crops, sorghums, millet, or soybeans. All operations prior to and in connection with the seeding must be on the contour. If there is danger of erosion in waterways, such waterways must be permanently established in sod. Contour lines must be laid out with an approved instrument. No credit will be given for this practice for any acreage qualifying under Practice (4), Contour Stripcropping.—**\$0.50 per acre.**

(4) **Contour stripcropping.**—Growing alternate strips of intertilled crops with sown, close-drilled, or sod crops, on the contour: *Provided*, (1) the strips are approximately the same width; (2) the strips are not less than 3 rods nor more than 10 rods in width; (3) the crop stubble is left standing or a good stand of a winter cover crop is obtained; (4) at least 25 percent of the field is in strips of perennial grasses or legumes or mixtures thereof; and (5) contour lines are laid out with an approved instrument. When it is necessary because of crop rotations, to have two adjacent strips of sown, close-drilled, or sod crops, credit may be given for the entire field.—**\$1.50 per acre.**

(5) **Establishing sod waterways.**—Establishing a permanent sod waterway on any cropland where a permanent vegetative cover is necessary in a waterway channel or terrace outlet, or in cultivated orchards. The channel of the waterway must be sufficiently wide to carry the run-off from the drainage area and must be at least 1 rod wide at the narrowest point. The channel must contain perennial grasses and a good vegetative growth must be obtained.—**\$0.75 per 1,000 square feet.**

(6) **Pasture establishment or improvement.**—Establishing or improving permanent pasture by carrying out all of the following operations: (1) applying the necessary amounts of liming materials or fertilizers as determined by the county committee; (2) tearing up the sod by the use of a disk or similar tool in such a manner as to mix the needed lime or fertilizer into the soil and to provide a satisfactory seedbed; (3) making a seeding of not less than 16 pounds per acre of an approved pasture mixture of the legumes and grasses listed below, such seeding to include at least 50 percent of biennial or perennial legumes, except that Reeds canary grass may be seeded alone at the rate of 8 to 12 pounds per acre; (4) delaying grazing until the new seeding has made a good growth, controlling grazing during the remainder of the grazing season, and removing livestock early enough in the fall to permit a good growth of the pasture before winter; and (5) mowing weeds, if necessary, a sufficient number of times to prevent



seed formation and to control growth. Credit for the lime or fertilizer applied may be given under Practices (17), (18), or (19).

(a) For timothy or Korean lespedeza.—\$0.05 per pound.

(b) For sweet clover, redtop, smooth brome grass, crested wheat grass or ryegrass.—\$0.15 per pound.

(c) For Kentucky bluegrass, Canadian bluegrass, orchard grass, or meadow fescue.—\$0.20 per pound.

(d) For red clover, alsike clover, or alfalfa.—\$0.25 per pound.

(e) For Reeds canary grass.—\$0.30 per pound.

(7) **Construction of open farm drainage ditches.**—Construction or enlargement of open farm drainage ditches (except ditches constructed or maintained by a drainage district), including lateral and lead ditches for which proper outlets are provided, and adequate provision is made for the entrance of water into and out of the ditches. An engineer's survey of grade and cross-section and a map of the area showing the ditches may be used to determine whether the specifications have been met. No credit will be given for material moved in cleaning the ditch.—\$0.08 per cubic yard, but not in excess of \$8.00 per 100 linear feet.

(8) **Excavation of ditches for tile drainage.**—Excavation of ditches for the installation of tile drains, provided the size of tile, outlets, and gradient meet the specifications for standard drainage published by the U. S. Department of Agriculture. No credit will be given if the tile lines are used for any purpose other than the draining of agricultural land. An engineer's survey showing grades of tile lines may be used to determine whether the specifications have been met. A map showing the location of the tile lines must be available for inspection.—\$0.40 per rod.

(9) **Dams and ponds for livestock water.**—Construction of earthen, concrete, or masonry dams and ponds for providing water for livestock. Earthen dams must be constructed with minimum slopes of 3 to 1 on the upstream side and 2 to 1 on the downstream side. Dams of 10 feet or less in height must have a minimum freeboard of 3 feet. Dams over 10 feet in height must have a minimum freeboard of 4 feet. The water in the pond must be at least 6 feet deep below the spillway. The spillways must be of sufficient width to carry the expected overflow from the drainage area. The dam and pond must be fenced to exclude livestock and the water must be piped out to a tank or where this is impracticable, a small arm of the pond may be permitted to extend beyond the fenced area, or chutes or other means of making the water available to stock may be approved by the county committee, provided such methods do not permit access of the stock to the pond proper.

(a) For earth or other material moved.—\$0.12 per cubic yard.

(b) For concrete.—\$9.00 per cubic yard.

(c) For rubble masonry.—\$6.00 per cubic yard.

(10) **Mulching Materials.**—Application of straw to commercial orchards, vineyards, commercial vegetable land, strawberries, or other small fruits.—\$4 per ton.

(11) **Go-down crops—Commercial orchards and commercial vegetable land.**—Protecting the soil from wind and water erosion by the use of go-down crops, provided a good vegetative growth is ob-



tained and the crop is not pastured or harvested for grain, hay, seed, or forage, or otherwise taken from the land. The following crops will qualify: Sudan grass, millet, buckwheat, oats, barley, rye, wheat, or mixtures of any of these crops, lespedeza seeded in the spring of 1946, soybeans or cowpeas.—**\$1.50 per acre.**

(12) **Green manure crops.**—Disking or plowing under a good stand and a good growth of the following crops. If the land is subject to erosion and the green manure crop is turned under in the fall, the land must be protected by a winter cover crop.—**\$1.50 per acre.**

- (a) Oats, barley, wheat, or soybeans, in orchards and on vegetable land.
- (b) 1945 fall seedings of winter rye turned under in the spring of 1946.
- (c) Cowpeas.
- (d) Buckwheat.
- (e) Winter vetch or crimson clover.
- (f) 1946 spring seeded lespedeza not cut for hay or pastured and followed by a winter cover crop.
- (g) Sweetclover.
- (h) Alsike or red clover turned under in the fall of 1946.

(13) **Eradication of weeds on cropland.**—Eradication of seriously infested plots of **bindweed, Canada thistle, hoary cress, leafy spurge, perennial sow thistle, or Russian knapweed.** Approval may be given for this practice only on farms where approved weed-control measures are being carried out on all adjacent infested farms and contiguous land, where the infestation is limited to a single farm or where the county committee determines there is no likelihood of reinfestation from adjacent or contiguous land. No crop may be taken from the land but the weeds may be cut and removed before tillage is begun.

- (a) For sodium chlorate or other chemicals approved by the state committee.—**\$0.07 per pound.**
- (b) For continuous clean tillage.—**\$10.00 per acre.**

(14) **Tree planting.**—Planting trees for forest purposes, gully control, or windbreak, in accordance with good tree culture. The site and species of trees to be planted must have the approval of the county committee. The plantings must be protected from fire and grazing. The following species of trees may be approved provided they are adapted to the particular soil type, climatic conditions, moisture conditions, and site:

(a) For forest purposes: Shortleaf pine, loblolly pine, cypress, red pine, white pine, jack pine, pitch pine, Virginia pine, red cedar, black walnut, white oak, red oak, tulip poplar, ash, red gum, black locust, catalpa, soft maple, cottonwood, and any other trees approved by the State Forester, to be planted 6 to 8 feet apart in rows 6 to 8 feet apart.—**\$1.00 per 100 trees, but not in excess of \$7.50 per acre.**

(b) For gully control: Black locust in active gullies to be planted from 3 to 6 feet apart. All trees approved for forest plantings may be used on the area surrounding the gully, to be planted 6 to 8 feet apart in rows 6 to 8 feet apart.—**\$1.00 per 100 trees, but not in excess of \$7.50 per acre.**

(c) For windbreak: Norway spruce, white spruce, blue spruce, Douglas fir, red pine on sandy land, and shortleaf and loblolly pine in southern Illinois. To be planted in 3 rows 14 feet apart with the trees 14 feet apart in the rows. The trees in the middle row should be staggered.—**\$2.00 per 100 trees.**

(15) **Maintaining a stand of trees in windbreaks.**—Maintaining for windbreaks a stand of at least 200 trees per acre which have been planted between January 1, 1941, and January 1, 1946, by cultivation sufficiently to control other vegetation, protecting from fire and grazing and replanting if necessary.—**\$3 per acre.**



(16) **Harvesting hayseed.**—Harvesting for seed an acreage of alfalfa, red clover, and alsike. Credit will not be given for more than 25 acres per farm.—\$3.50 per acre.

(17) **Liming materials.**—(Credit rates are contained in NCR-46-1, Supplement 1.) Application of the following materials:

(a) **One ton of agricultural ground limestone** containing at least 80 percent calcium carbonate equivalent and ground sufficiently fine so that 80 percent, including all of the finer particles obtained in the grinding process, will pass through a U. S. Standard No. 8 sieve. The moisture content at the time of shipment must not exceed 8 percent. The calcium carbonate equivalent and the percent passing through a U. S. Standard No. 8 sieve must be at least 80 and one or both must be greater than 80 so that the multiplication of the percent of calcium carbonate equivalent by the percent of material passing through a U. S. Standard No. 8 sieve will be equal to or in excess of 0.72.

(b) **One ton of by-product of lead mines** with the lead separated out by the water table method. The sludge must be ground so that 90 percent will pass through a U. S. Standard No. 8 sieve. The calcium carbonate content must be at least 80 percent.

(c) **One ton of lead mine refuse** produced in Northwestern Illinois or Wisconsin. The material must contain 80 percent calcium carbonate equivalent and ground sufficiently fine so that 80 percent, including all of the finer particles obtained in the grinding process, will pass through a U. S. Standard No. 8 sieve. The calcium carbonate equivalent and the percent passing through a U. S. Standard No. 8 sieve must be at least 80 and one or both must be greater than 80 so that the multiplication of the percent of calcium carbonate equivalent by the percent of material passing through a U. S. Standard No. 8 sieve will be equal to or in excess of 0.72.

(d) **One ton of No. 2 limestone** containing at least 65 percent calcium carbonate equivalent and ground sufficiently fine so that 80 percent, including all of the finer particles obtained in the grinding process, will pass through a U. S. Standard No. 8 sieve.

(e) **One cubic yard of marl** containing at least 70 percent calcium carbonate equivalent.

(f) **One ton of blast furnace slag** containing at least 80 percent calcium carbonate equivalent and ground sufficiently fine so that 80 percent will pass through a U. S. Standard No. 8 sieve.

(g) **One cubic yard of water-softening process lime** containing at least 70 percent calcium carbonate equivalent.

(h) **One ton of commercial burnt lime** containing at least 90-percent calcium carbonate equivalent and testing not more than 20-percent moisture at the loading point.

(i) **One ton of hydrated lime.**

A correspondingly greater amount of material must be required if the material does not meet the specifications.

(18) **Fertilizers.**—Application of superphosphate, defluorinated phosphate rock, or potash to: (1) **pastures**; (2) **new seedings** of biennial or perennial legumes, perennial grasses, winter legumes, or lespedeza, with or without a nurse crop; (3) **old stands** of biennial or perennial legumes, or perennial grasses, provided the acreage to which such applications are made is not devoted to, cultivated for, or plowed for any other crop prior to January 1, 1947; and (4) **green manure crops** in orchards.

(a) Application of superphosphate or defluorinated phosphate rock.—\$3.50 per 100 lbs. of available  $P_2O_5$ .

(b) Application of potash----- \$2.50 per 100 lbs. of available  $K_2O$ .

(c) 100 lbs. of 0-9-27----- \$1.00

(d) 100 lbs. of 0-10-20----- .80

(e) 100 lbs. of 0-12-12----- .70

(f) 100 lbs. of 0-14-7----- .70

(g) 100 lbs. of 0-14-14----- .80



(h)	100 lbs. of 0-18-0	-----	\$0. 60
(i)	100 lbs. of 0-19-0	-----	. 70
(j)	100 lbs. of 0-20-0	-----	. 70
(k)	100 lbs. of 0-20-10	-----	. 90
(l)	100 lbs. of 0-20-20	-----	1. 20
(m)	100 lbs. of 2-12-6	-----	. 60
(n)	100 lbs. of 2-16-8	-----	. 80
(o)	100 lbs. of 3-9-18	-----	. 80
(p)	100 lbs. of 3-12-12	-----	. 70
(q)	100 lbs. of 3-18-9	-----	. 90
(r)	100 lbs. of 4-10-6	-----	. 50
(s)	100 lbs. of 4-16-0	-----	. 60
(t)	100 lbs. of 8-8-8	-----	. 50
(u)	100 lbs. of 10-6-4	-----	. 30

(19) **Fertilizers.**—Application of raw rock phosphate containing at least 30 percent phosphoric acid or colloidal phosphate containing at least 18 percent phosphoric acid to any crop.

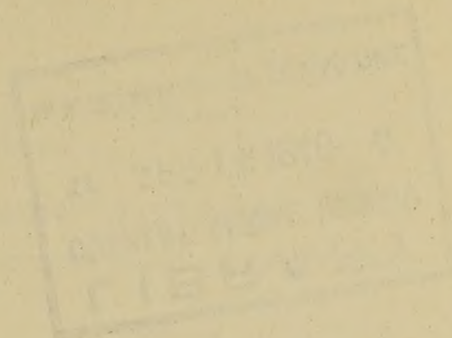
(a)	100 lbs. of raw rock phosphate	-----	\$0. 40
(b)	100 lbs. of colloidal phosphate	-----	. 25

(20) **Borax.**—Application of 25 to 35 pounds per acre on alfalfa where boron deficiency is apparent.—**\$1.00 per acre.**

### C. POOLING AGREEMENTS

Producers in any local area may agree in writing, with the approval of the County and State committees, to cooperatively perform the following practices on one or more of the farms operated by such producers, provided all of their farms are benefited by the performance of such practices: **Practice (7), Construction of open farm drainage ditches; Practice (8), Excavation of ditches for tile drainage; or Practice (13), Eradication of weeds on cropland.** Instructions for carrying out a pooling agreement are contained in NCR-46-2.







U. S. DEPARTMENT OF AGRICULTURE

☆ APR 16 1946 ☆

CURRENT SERIAL RECORD

LIBRARY



UNITED STATES DEPARTMENT OF AGRICULTURE  
PRODUCTION AND MARKETING ADMINISTRATION  
FIELD SERVICE BRANCH—WASHINGTON, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

SUPPLEMENT 1 TO ILLINOIS COMMITTEEMAN'S  
PRACTICE HANDBOOK

## 1946 CREDIT RATES FOR LIMING MATERIALS

Following are the materials for which the credit rates are the same throughout the State:

Type of material	Credit rate
Marl .....	\$0.90 per cu. yd.
Blast furnace slag .....	1.40 per ton.
Water-softening process lime .....	.70 per cu. yd.
Commercial burnt lime .....	4.00 per ton.
Hydrated lime .....	4.00 per ton.

The following are the credit rates per ton for the other materials for which credit will be given in your county.

## ADAMS COUNTY

Township	Lime-stone	No. 2 lime-stone
Beverly .....	\$2.00	
Burton .....	1.80	
Camp Point .....	2.00	\$1.60
Clayton .....	2.00	1.60
Columbus .....	1.90	
Concord .....	2.00	
Ellington .....	1.80	
Fall Creek .....	1.70	
Gilmer .....	1.80	
Honey Creek .....	1.90	
Houston .....	2.00	1.60
Keene .....	2.00	
Liberty .....	1.90	
Lima .....	2.00	
McKee .....	2.10	
Melrose .....	1.70	
Mendon .....	1.70	
North East .....	2.00	1.60
Payson .....	1.80	
Richfield .....	1.90	
Riverside .....	1.80	
Ursa .....	1.80	

## ALEXANDER COUNTY

Township	Lime-stone
Beech Ridge .....	\$1.80
Cache-Cairo .....	2.00

## ALEXANDER COUNTY

Township	Lime-stone
Delta .....	\$1.50
East Cape Girardeau .....	2.00
Elco .....	1.40
Lake Milligan .....	2.10
McClure .....	1.80
Miller .....	1.70
Olive Branch .....	1.70
Sandusky .....	1.50
Santa Fe .....	1.70
Tamms .....	1.50
Thebes .....	1.90
Unity .....	1.50

## BOND COUNTY

Township	Lime-stone	By-product of lead mines
Burgess .....	\$2.10	\$1.90
Central .....	2.10	1.90
Lagrange .....	2.10	1.90
Mills .....	2.10	1.90
Mulberry Grove .....	2.10	1.90
Old Ripley .....	2.10	1.90
Pleasant Mound .....	2.10	1.90
Shoal Creek .....	2.10	1.90
Tamalco .....	2.10	1.90



## BOONE COUNTY

Township	Lime - stone
Belvidere.....	\$1.20
Bonus.....	1.20
Boone.....	1.00
Caledonia.....	1.00
Flora.....	1.30
LeRoy.....	1.20
Manchester.....	1.20
Poplar Grove.....	1.00
Spring.....	1.30

## BROWN COUNTY

Township	Lime - stone	No. 2 lime - stone
Buckhorn.....	\$2.30	\$1.80
Cooperstown.....	2.10	1.70
Elk Horn.....	2.30	1.80
Lee.....	2.30	1.80
Missouri.....	2.30	1.70
Mt. Sterling.....	2.30	1.80
Pea Ridge.....	2.20	1.60
Ripley.....	2.30	1.80
Versailles.....	2.30	1.80

## BUREAU COUNTY

Arispie.....	\$1.80	
Berlin.....	1.70	
Bureau.....	1.80	
Clarion.....	1.70	
Concord.....	2.00	
Dover.....	1.70	
Fairfield.....	2.00	
Gold.....	2.00	
Greenville.....	2.00	
Hall.....	1.30	
Indiantown.....	1.90	\$1.50
LaMoille.....	1.70	
Leepertown.....	1.60	
Macon.....	2.10	1.50
Manlius.....	2.00	
Milo.....	1.90	1.50
Mineral.....	2.10	
Neponset.....	2.20	1.50
Ohio.....	1.80	
Princeton.....	1.70	
Selby.....	1.50	
Walnut.....	1.80	
Westfield.....	1.40	
Wheatland.....	1.80	1.50
Wyanaet.....	1.90	

## CALHOUN COUNTY

Township	Lime - stone
Bellevue.....	\$2.10
Carlin.....	1.90
Crater.....	1.80
Gilead.....	1.80
Hamburg.....	2.00
Hardin.....	1.80
Point.....	1.80
Richwood.....	1.80

## CARROLL COUNTY

Cherry Grove.....	\$1.40
Elkhorn Grove.....	1.40
Fairhaven.....	1.40
Freedom.....	1.40
Lima.....	1.40
Mt. Carroll.....	1.40
Rock Creek.....	1.40
Salem.....	1.40
Savanna.....	1.40
Shannon.....	1.40
Washington.....	1.40
Woodland.....	1.40
Wysox.....	1.40
York.....	1.40

## CASS COUNTY

Arens ville.....	\$2.40
Ashland.....	2.50
Beardstown.....	2.10
Bluff Springs.....	2.30
Chandlerville.....	2.50
Hagener.....	2.40
Newmansville.....	2.40
Panther Creek.....	2.50
Philadelphia.....	2.40
Sangamon Valley.....	2.40
Virginia.....	2.30

## CHAMPAIGN COUNTY

Ayers.....	\$1.60
Brown.....	1.80
Champaign.....	1.70
Champaign City.....	1.90
Colfax.....	1.80
Compromise.....	1.80
Condit.....	1.80
Crittenden.....	1.80
East Bend.....	1.80
Harwood.....	1.80
Hensley.....	1.80
Kerr.....	1.80
Ludlow.....	1.80
Mahomet.....	1.90
Newcomb.....	1.80



## CHAMPAIGN COUNTY—Cont.

Township	Lime-stone
Ogden.....	\$1.70
Pesotum.....	1.80
Philo.....	1.70
Rantoul.....	1.80
Raymond.....	1.70
Sadorus.....	1.90
St. Joseph.....	1.70
Scott.....	1.90
Sidney.....	1.60
Somer.....	1.80
South Homer.....	1.50
Stanton.....	1.70
Tolono.....	1.70
Urbana.....	1.70

## CLAY COUNTY

Township	Lime-stone	By-product of lead mines
Bible Grove.....	\$2.30	\$2.10
Blair.....	2.30	2.10
Clay City.....	2.20	2.00
Harter.....	2.20	2.00
Hoosier.....	2.30	2.10
Larkinsburg.....	2.30	2.10
Louisville.....	2.20	2.00
Oskaloosa.....	2.20	2.00
Pixley.....	2.30	2.10
Songer.....	2.20	2.00
Stanford.....	2.20	2.00
Xenia.....	2.20	2.00

## CHRISTIAN COUNTY

Township	Lime-stone	By-product of lead mines
Assumption.....	\$2.20	\$2.00
Bear Creek.....	2.10	1.90
Buckhart.....	2.20	2.00
Greenwood.....	2.10	1.90
Johnson.....	2.20	2.00
King.....	2.10	1.90
Locust.....	2.20	2.00
May.....	2.20	2.00
Mosquito.....	2.20	2.00
Mt. Auburn.....	2.20	2.00
Pana.....	2.10	1.90
Prairieton.....	2.10	1.90
Ricks.....	2.10	1.90
Rosemond.....	2.10	1.90
South Fork.....	2.20	2.00
Stonington.....	2.20	2.00
Taylorville.....	2.20	2.00

## CLINTON COUNTY

Breese.....	\$1.90	\$1.70
Brookside.....	2.20	1.90
Carlyle.....	2.10	1.90
Clement.....	2.10	1.90
East Fork.....	2.30	2.10
Germantown.....	1.90	1.70
Irishtown.....	2.10	1.90
Lake.....	2.10	1.90
Looking Glass.....	1.80	1.60
Meridian.....	2.20	1.90
St. Rose.....	1.90	1.70
Santa Fe.....	2.00	1.80
Sugar Creek.....	1.80	1.60
Wade.....	2.00	1.80
Wheatfield.....	2.00	1.80

## COLES COUNTY

Township	Lime-stone
Ashmore.....	\$1.80
Charleston.....	1.80
East Oakland.....	1.80
Humboldt.....	1.80
Hutton.....	2.00
Lafayette.....	2.00
Mattoon.....	2.10
Morgan.....	1.90
North Okaw.....	2.10
Paradise.....	2.10
Pleasant Grove.....	2.00
Seven Hickory.....	1.90

## CLARK COUNTY

Township	Lime-stone
Anderson.....	\$1.90
Auburn.....	1.90
Casey.....	1.80
Darwin.....	1.80
Dolson.....	1.90
Douglas.....	1.80
Johnson.....	1.80
Marshall.....	1.80
Martinsville.....	1.90
Melrose.....	1.90
Orange.....	1.90
Parker.....	2.00
Wabash.....	1.80
Westfield.....	1.90
York.....	1.80

## COOK COUNTY

Barrington.....	\$1.60
Bloom.....	1.40
Bremen.....	1.40
Calumet.....	1.50
Elk Grove.....	1.30
Hanover.....	1.40



## COOK COUNTY—Continued

Township	Lime- stone
Lemont.....	\$1.40
Leyden.....	1.30
Lyons.....	1.30
Maine.....	1.30
New Trier.....	1.60
Niles.....	1.40
North Field.....	1.50
Norwood Park.....	1.30
Orland.....	1.50
Palatine.....	1.50
Palos.....	1.40
Proviso.....	1.10
Rich.....	1.40
Schaumburg.....	1.40
Stickney.....	1.40
Thornton.....	1.30
Wheeling.....	1.50
Worth.....	1.50

## CRAWFORD COUNTY

Honey Creek.....	\$2.30
Hutsonville.....	2.10
Lamotte.....	2.30
Licking.....	2.10
Martin.....	2.30
Montgomery.....	2.40
Oblong.....	2.20
Prairie.....	2.10
Robinson.....	2.30
Southwest.....	2.30

## CUMBERLAND COUNTY

Cottonwood.....	\$2.00
Crooked Creek.....	1.80
Greenup.....	1.90
Neoga.....	2.10
Spring Point.....	2.10
Sumpter.....	1.90
Union.....	1.90
Woodbury.....	2.00

## DE KALB COUNTY

Afton.....	\$1.80
Clinton.....	1.80
Cortland.....	1.90
DeKalb.....	1.90
Franklin.....	1.40
Genoa.....	1.60
Kingston.....	1.50
Malta.....	1.60
Mayfield.....	1.70
Milan.....	1.60
Paw Paw.....	1.60
Pierce.....	2.00
Sandwich.....	1.80

## DE KALB COUNTY—Continued

Township	Lime- stone
Shabbona.....	\$1.60
Somonauk.....	1.80
South Grove.....	1.40
Squaw Grove.....	1.80
Sycamore.....	1.80
Victor.....	1.80

## DE WITT COUNTY

Barnett.....	\$2.10
Clintonia.....	1.90
Creek.....	2.00
DeWitt.....	1.90
Harp.....	1.90
Nixon.....	2.00
Rutledge.....	1.90
Santa Anna.....	1.90
Texas.....	1.90
Tunbridge.....	2.10
Wapella.....	2.00
Waynesville.....	2.10
Wilson.....	1.90

## DOUGLAS COUNTY

Arcola.....	\$2.00
Bourbon.....	2.00
Bowdre.....	2.00
Camargo.....	2.00
Garrett.....	2.10
Murdock.....	1.90
Newman.....	1.80
Sargent.....	1.90
Tuscola.....	2.00

## DU PAGE COUNTY

Addison.....	\$1.30
Bloomington.....	1.40
Downers Grove.....	1.30
Lisle.....	1.40
Milton.....	1.40
Naperville.....	1.40
Wayne.....	1.50
Winfield.....	1.40
York.....	1.30

## EDGAR COUNTY

Brouillets Creek.....	\$2.20
Buck.....	2.00
Edgar.....	2.10
Elbridge.....	1.80
Embarrass.....	2.00
Grandview.....	1.90
Hunter.....	2.10

## EDGAR COUNTY—Continued

Township	Lime-stone
Kansas.....	\$1.80
Paris.....	2.00
Prairie.....	2.10
Ross.....	1.90
Shiloh.....	2.00
Stratton.....	2.10
Symmes.....	1.80
Young America.....	1.80

## EDWARDS COUNTY

Township	Lime-stone	By-product of lead mines
Albion.....	\$2.10	\$1.90
Bone Gap.....	2.30	2.10
Browns.....	2.20	2.00
Dixon.....	2.30	2.10
Ellery.....	2.30	2.10
French Creek.....	2.30	2.10
Salem.....	2.30	2.10
Shelby.....	2.30	2.10

## EFFINGHAM COUNTY

Banner.....	\$2.20	\$2.00
Bishop.....	2.10	1.90
Douglas.....	2.00	1.80
Jackson.....	2.20	2.00
Liberty.....	2.20	2.00
Lucas.....	2.20	2.00
Mason.....	2.10	1.90
Moccasin.....	2.20	2.00
Mound.....	2.10	1.90
St. Francis-Teutopolis.....	2.10	1.90
Summit.....	2.20	2.00
Union.....	2.20	2.00
Watson.....	2.10	1.90
West.....	2.10	1.90

## FAYETTE COUNTY

Avena.....	\$2.20	\$2.00
Bear Grove.....	2.10	1.90
Bowling Green.....	2.10	1.90
Carson.....	2.30	2.10
Hurricane.....	2.30	2.10
Kaskaskia.....	2.10	1.90
La Clede.....	2.10	1.90
Lone Grove.....	2.10	1.90
Louden.....	2.30	2.10
Otego.....	2.00	1.80
Pope.....	2.30	2.10
Ramsey.....	2.10	1.90
Sefton.....	2.10	1.90
Seminary.....	2.20	2.00
Shafter.....	2.20	2.00

## FAYETTE COUNTY—Continued

Township	Lime-stone	By-product of lead mines
Sharon.....	\$2.10	\$1.90
South Hurricane.....	2.20	2.00
Vandalia.....	2.10	1.90
Wheatland.....	2.10	1.90
Wilberton.....	2.30	2.10

## FORD COUNTY

Township	Lime-stone
Brenton.....	\$1.60
Button.....	1.70
Dix.....	1.90
Drummer.....	1.90
Lyman.....	1.60
Mona.....	1.40
Patton.....	1.70
Peach Orchard.....	1.70
Pella.....	1.50
Rogers.....	1.30
Sullivant.....	1.60
Wall.....	1.60

## FRANKLIN COUNTY

Township	Lime-stone	By-product of lead mines
Barren.....	\$1.80	\$1.60
Benton.....	1.70	1.50
Browning.....	1.70	1.50
Cave.....	1.90	1.70
Denning.....	1.90	1.70
Eastern.....	2.00	1.80
Ewing.....	1.70	1.50
Frankfort.....	1.90	1.70
Goode.....	1.80	1.60
Northern.....	1.90	1.70
Six Mile.....	1.80	1.60
Tyrone.....	1.90	1.70

## FULTON COUNTY

Township	Lime-stone
Astoria.....	\$2.30
Banner.....	2.40
Bernadotte.....	2.50
Buckheart.....	2.40
Canton.....	2.30
Cass.....	2.40
Deerfield.....	2.40
Ellisville.....	2.40
Fairview.....	2.30



## FULTON COUNTY—Continued

Township	Lime-stone
Farmer.....	\$2.40
Farmington.....	2.30
Harris.....	2.40
Isabel.....	2.40
Joshua.....	2.40
Kerton.....	2.40
Lee.....	2.30
Lewistown.....	2.40
Liverpool.....	2.40
Orion.....	2.40
Pleasant.....	2.40
Putman.....	2.50
Union.....	2.30
Vermont.....	2.40
Waterford.....	2.50
Woodland.....	2.40
Young Hickory.....	2.30

## GALLATIN COUNTY

Township	Lime-stone	By-product of lead mines
Asbury.....	\$2.30	\$2.10
Bowlesville.....	2.30	2.10
Eagle Creek.....	2.10	1.90
Equality.....	2.10	1.90
Gold Hill.....	2.10	1.90
New Haven.....	2.30	2.10
North Fork.....	2.10	1.90
Omaha.....	2.20	2.00
Ridgway.....	2.10	1.90
Shawnee.....	2.30	2.10

## GREENE COUNTY

Township	Lime-stone
Athensville.....	\$2.30
Bluffdale.....	1.80
Carrollton.....	2.00
Kane.....	2.00
Linder.....	2.10
Patterson.....	2.00
Rockbridge.....	2.20
Roodhouse.....	2.20
Rubicon.....	2.20
Walkerville.....	1.90
White Hall.....	2.10
Woodville.....	1.90
Wrights.....	2.10

## GRUNDY COUNTY

Township	Lime-stone
Aux Sable.....	\$1.40
Braceville.....	1.40
Erienna.....	1.50
Felix.....	1.40
Garfield.....	1.40
Goodfarm.....	1.50
Goose Lake.....	1.50
Greenfield.....	1.30
Highland.....	1.60
Maine.....	1.50
Mazon.....	1.50
Nettle Creek.....	1.50
Norman.....	1.70
Saratoga.....	1.40
Vienna.....	1.60
Wauponsee.....	1.60

## HAMILTON COUNTY

Township	Lime-stone	By-product of lead mines
Beaver Creek.....	\$2.20	\$2.00
Crook.....	2.00	1.80
Crouch.....	2.00	1.80
Dahlgren.....	2.00	1.80
Flannigan.....	2.20	2.00
Knight Prairie.....	2.00	1.80
McLeansboro.....	1.90	1.70
Mayberry.....	2.10	1.90
South Twigg.....	2.20	1.90
Twigg.....	2.10	1.90

## HANCOCK COUNTY

Township	Lime-stone	No. 2 lime-stone
Appanoose.....	\$1.80	\$1.30
Augusta.....	2.00	1.60
Bear Creek.....	2.00	1.40
Carthage.....	2.00	1.50
Chili.....	2.00	1.60
Dallas.....	1.70	1.40
Durham.....	1.70	1.40
Fountain Green.....	1.90	1.50
Hancock.....	1.90	1.50
Harmony.....	2.00	1.50
La Harpe.....	1.90	1.50
Montebello.....	2.00	1.30
Nauvoo.....	1.90	1.30
Pilot Grove.....	1.90	1.50
Pontoosuc.....	1.70	1.40
Prairie.....	2.00	1.30
Rock Creek.....	1.90	1.40
Rocky Run.....	1.80	1.40
St. Albans.....	2.00	1.50

## HANCOCK COUNTY—Continued

Township	Lime-stone	No. 2 lime-stone
St. Marys.....	\$2.00	\$1.60
Sonora.....	1.90	1.30
Walker.....	1.80	1.40
Warsaw.....	1.90	1.30
Wilcox.....	1.90	1.30
Wythe.....	1.90	1.30

## HARDIN COUNTY

Township	Lime-stone
Battery Rock.....	\$1.70
Cave-in-Rock.....	1.60
East Monroe.....	1.90
East Rosiclare.....	1.70
McFarlan.....	1.70
Rock Creek.....	1.80
West Monroe.....	1.70
West Rosiclare.....	1.60

## HENDERSON COUNTY

Township	Lime-stone	No. 2 lime-stone
Bald Bluff.....	\$1.80	\$1.40
Biggsville.....	1.70	1.40
Carman.....	1.60	1.30
Gladstone.....	1.60	1.30
Lomax.....	1.60	1.30
Media.....	1.80	1.40
Oquawka.....	1.70	1.40
Raritan.....	1.90	1.40
Rozetta.....	1.80	1.40
Stronghurst.....	1.80	1.40
Terre Haute.....	1.70	1.40

## HENRY COUNTY

Alba.....	\$1.90	-----
Andover.....	1.70	-----
Annawan.....	2.00	\$1.50
Atkinson.....	1.80	-----
Burns.....	1.90	1.30
Cambridge.....	1.80	1.20
Clover.....	1.80	-----
Colona.....	1.40	-----
Cornwall.....	1.90	1.40
Edford.....	1.50	-----
Galva.....	1.90	1.20
Geneseo.....	1.60	-----
Hanna.....	1.50	-----
Kewanee.....	2.00	1.30
Loraine.....	1.60	-----
Lynn.....	1.60	-----
Munson.....	1.70	-----

## HENRY COUNTY—Continued

Township	Lime-stone	No. 2 lime-stone
Osco.....	\$1.60	-----
Oxford.....	1.70	-----
Phenix.....	1.50	-----
Weller.....	1.90	\$1.20
Western.....	1.50	-----
Wethersfield.....	2.00	1.30
Yorktown.....	1.90	-----

## IROQUOIS COUNTY

Township	Lime-stone
Artesia.....	\$1.50
Ash Grove.....	1.50
Ashkum.....	1.20
Beaver.....	1.40
Beaverville.....	1.30
Belmont.....	1.40
Chebanse.....	1.10
Concord.....	1.50
Crescent.....	1.40
Danforth.....	1.30
Douglas.....	1.30
Fountain Creek.....	1.70
Iroquois.....	1.30
Loda.....	1.60
Lovejoy.....	1.80
Martinton.....	1.30
Middleport.....	1.40
Milford.....	1.50
Milks Grove.....	1.10
Onarga.....	1.40
Papineau.....	1.20
Pigeon Grove.....	1.70
Prairie Green.....	1.80
Ridgeland.....	1.40
Sheldon.....	1.50
Stockland.....	1.60

## JACKSON COUNTY

Bradley.....	\$1.70
Carbondale.....	1.90
Degognia.....	1.70
DeSoto.....	1.90
Elk.....	1.90
Fountain Bluff.....	1.80
Grand Tower.....	1.80
Kinkaid.....	1.80
Levan.....	1.90
Makanda.....	1.80
Murphysboro.....	1.90
Ora.....	1.80
Pomona.....	1.80
Sand Ridge.....	1.90
Somerset.....	1.90
Vergennes.....	1.90



## JASPER COUNTY

Township	Lime-stone
Crooked Creek	\$2.00
Fox	2.20
Grandville	1.90
Grove	2.10
Hunt City	2.00
North Muddy	2.10
Ste. Marie	2.20
Smallwood	2.20
South Muddy	2.20
Wade	2.10
Willow Hill	2.10

## JEFFERSON COUNTY

Township	Lime-stone	By-product of lead mines
Bald Hill	\$1.80	\$1.60
Blissville	2.00	1.80
Casner	2.00	1.80
Dodds	2.00	1.80
Elk Prairie	1.90	1.70
Farrington	2.10	1.90
Field	2.10	1.90
Grand Prairie	2.00	1.80
McClellan	1.80	1.60
Moore's Prairie	2.00	1.80
Mount Vernon	1.90	1.70
Pendleton	2.00	1.80
Rome	2.00	1.80
Shiloh	1.90	1.70
Spring Garden	2.00	1.80
Webber	2.10	1.90

## JERSEY COUNTY

Township	Lime-stone
Elsah	\$1.70
English	1.90
Fidelity	1.90
Jersey	2.10
Mississippi	1.80
Otter Creek	1.90
Piasa	1.80
Quarry	1.70
Richwood	1.90
Rosedale	1.90
Ruyle	2.20

## JO DAVIESS COUNTY

Township	Lime-stone	Lead mine refuse
Apple River	\$1.40	\$1.20
Berreman	1.40	1.20
Council Hill	1.40	1.20
Derinda	1.40	1.20
Dunleith	1.40	1.20
East Galena	1.40	1.20
Elizabeth	1.40	1.20
Guilford	1.40	1.20
Hanover	1.40	1.20
Menominee	1.40	1.20
Nora	1.40	1.20
Pleasant Valley	1.40	1.20
Rawlins	1.40	1.20
Rice	1.40	1.20
Rush	1.40	1.20
Scales Mound	1.40	1.20
Stockton	1.40	1.20
Thompson	1.40	1.20
Vinegar Hill	1.40	1.20
Wards Grove	1.40	1.20
Warren	1.40	1.20
West Galena	1.40	1.20
Woodbine	1.40	1.20

## JOHNSON COUNTY

Township	Lime-stone
Bloomfield	\$1.70
Burnside	1.80
Cache	1.40
Elvira	1.60
Goreville	1.90
Grantsburg	1.80
Simpson	1.80
Tunnel Hill	1.90
Vienna	1.60

## KANE COUNTY

Township	Lime-stone
Aurora	\$1.60
Big Rock	1.80
Blackberry	1.70
Burlington	1.80
Campton	1.60
Dundee	1.60
Elgin	1.40
Geneva-Batavia	1.50
Hampshire	1.70
Kaneville	1.80
Plato	1.60
Rutland	1.70
St. Charles	1.40
Sugar Grove	1.80
Virgil	1.80

## KANKAKEE COUNTY

Township	Lime-stone
Aroma.....	\$1.20
Bourbonnais.....	1.00
Essex.....	1.20
Ganeer.....	1.10
Kankakee.....	1.00
Limestone.....	1.00
Manteno.....	1.10
Momence.....	1.40
Norton.....	1.10
Otto.....	1.00
Pembroke.....	1.60
Pilot.....	1.10
Rockville.....	1.20
St. Anne.....	1.40
Salina.....	1.10
Sumner.....	1.20
Yellowhead.....	1.40

## KENDALL COUNTY

Big Grove.....	\$1.30
Bristol.....	1.60
Fox.....	1.40
Kendall.....	1.40
Lisbon.....	1.20
Little Rock.....	1.60
Na-Au-Say.....	1.60
Oswego.....	1.70
Seward.....	1.40

## KNOX COUNTY

Township	Lime-stone	No. 2 lime-stone
Cedar.....	\$1.90	
Chestnut.....	2.20	
Copley.....	2.10	\$1.50
Elba.....	2.00	1.40
Galesburg.....	1.80	
Haw Creek.....	2.10	1.50
Henderson.....	1.90	
Indian Point.....	2.10	
Knox.....	1.90	1.50
Lynn.....	1.90	1.40
Maquon.....	2.20	
Ontario.....	1.90	
Orange.....	1.90	
Persifer.....	2.00	1.40
Rio.....	1.90	
Salem.....	2.20	1.50
Sparta.....	2.00	
Truro.....	2.00	1.30
Victoria.....	2.10	1.30
Walnut Grove.....	1.90	1.50

## LAKE COUNTY

Township	Lime-stone
Antioch.....	\$1.90
Avon.....	1.90
Benton.....	1.90
Cuba.....	1.90
Deerfield.....	1.90
Ela.....	1.90
Fremont.....	1.90
Grant.....	1.90
Lake Villa.....	1.90
Libertyville.....	1.90
Newport.....	1.90
Shields.....	1.90
Vernon.....	1.90
Warren.....	1.90
Wauconda.....	1.90
Waukegan.....	1.90
West Deerfield.....	1.90

## LA SALLE COUNTY

Adams.....	\$1.80
Allen.....	1.40
Brookfield.....	1.60
Bruce.....	1.60
Dayton.....	1.50
Deer Park.....	1.40
Dimmick.....	1.40
Eagle.....	1.70
Earl.....	1.90
Eden.....	1.50
Fall River.....	1.60
Farm Ridge.....	1.60
Freedom.....	1.80
Grand Rapids.....	1.70
Groveland.....	1.60
Hope.....	1.60
La Salle.....	1.30
Manlius.....	1.70
Mendota.....	1.80
Meriden.....	1.90
Miller.....	1.60
Mission.....	1.40
Northville.....	1.70
Ophir.....	1.70
Osage.....	1.70
Ottawa.....	1.40
Otter Creek.....	1.50
Peru.....	1.30
Richland.....	1.60
Rutland.....	1.70
Serena.....	1.50
South Ottawa.....	1.50
Troy Grove.....	1.50
Utica.....	1.30
Vermilion.....	1.50
Wallace.....	1.50
Waltham.....	1.40



## LAWRENCE COUNTY

Township	Lime-stone	By-product of lead mines
Allison	\$2.20	\$2.00
Bond	2.40	2.00
Christy-Bridgeport	2.10	1.90
Dennison	2.40	2.00
Lawrence	2.10	1.90
Lukin	2.40	2.10
Petty	2.50	2.10
Russell	2.50	2.10

## LEE COUNTY

Township	Lime-stone
Alto	\$1.40
Amboy	1.30
Ashton	1.50
Bradford	1.20
Brooklyn	1.70
China	1.40
Dixon	1.30
East Grove	1.70
Hamilton	1.70
Harmon	1.50
Lee Center	1.20
Marion	1.50
May	1.70
Nachusa	1.40
Nelson	1.20
Palmyra	1.30
Reynolds	1.20
South Dixon	1.20
Sublette	1.50
Viola	1.40
Willow Creek	1.50
Wyoming	1.80

## LIVINGSTON COUNTY

Amity	\$1.10
Avoca	1.10
Belle Prairie	1.50
Broughton	1.40
Charlotte	1.50
Chatsworth	1.60
Dwight	1.40
Eppards Point	1.10
Esmen	1.00
Fayette	1.60
Forrest	1.50
Germanville	1.70
Indian Grove	1.40
Long Point	1.30
Nebraska	1.30
Nevada	1.30
Newtown	1.30
Odell	1.10
Owego	1.00

## LIVINGSTON COUNTY—Cont.

Township	Lime-stone
Pike	\$1.10
Pleasant Ridge	1.30
Pontiac	1.00
Reading	1.40
Rooks Creek	1.00
Round Grove	1.20
Saunemin	1.10
Sullivan	1.30
Sunbury	1.10
Union	1.30
Waldo	1.30

## LOGAN COUNTY

Aetna	\$2.20
Atlanta	2.20
Broadwell	1.80
Chester	1.90
Corwin	1.90
East Lincoln	1.90
Elkhart	1.90
Eminence	2.10
Hurlbut	2.00
Laenna	2.20
Lake Fork	2.20
Mt. Pulaski	2.10
Oran	2.20
Orvil	2.10
Prairie Creek	2.10
Sheridan	1.90
West Lincoln	1.90

## MC DONOUGH COUNTY

Township	Lime-stone	No. 2 lime-stone
Bethel	\$2.00	\$1.60
Blandinsville	2.00	
Bushnell	2.10	
Chalmers	1.90	
Colchester	1.90	
Eldorado	2.20	
Emmet	1.90	
Hire	1.90	
Industry	2.20	
Lamoine	2.00	1.60
Macomb	2.00	
Mound	2.10	
New Salem	2.10	
Prairie City	2.10	
Sciota	2.00	
Scotland	2.00	
Tennessee	1.90	
Walnut Grove	2.10	

## MC HENRY COUNTY

Township	Lime- stone
Alden.....	\$1.60
Algonquin.....	1.70
Burton.....	1.90
Chemung.....	1.40
Coral.....	1.30
Dorr.....	1.50
Dunham.....	1.30
Grafton.....	1.50
Greenwood.....	1.50
Hartland.....	1.50
Hebron.....	1.70
McHenry.....	1.80
Marengo.....	1.20
Nunda.....	1.70
Richmond.....	1.90
Riley.....	1.30
Seneca.....	1.30

## MC LEAN COUNTY

Allin.....	\$2.00
Anchor.....	1.80
Arrowsmith.....	1.90
Bellflower.....	2.00
Bloomington.....	1.90
Blue Mound.....	1.90
Cheney Grove.....	2.00
Chenoa.....	1.30
Cropsey.....	1.80
Dale.....	1.90
Danvers.....	2.00
Dawson.....	2.00
Downs.....	2.10
Dry Grove.....	1.80
Empire.....	2.00
Funks Grove.....	2.00
Gridley.....	1.60
Hudson.....	1.90
Lawndale.....	1.60
Lexington.....	1.60
Martin.....	1.90
Money Creek.....	1.80
Mt. Hope.....	2.10
Normal.....	2.00
Old Town.....	1.90
Randolph.....	2.00
Towanda.....	2.00
West.....	2.00
White Oak.....	1.90
Yates.....	1.30

## MACON COUNTY

Austin.....	\$2.00
Blue Mound.....	2.10
Decatur.....	2.10
Friends Creek.....	2.00
Harristown.....	2.00
Hickory Point.....	2.00

## MASON COUNTY—Continued

Township	Lime- stone
Illini.....	\$2.00
Long Creek.....	2.10
Maroa.....	2.00
Milam.....	2.00
Mt. Zion.....	2.00
Niantic.....	2.00
Oakley.....	2.00
Pleasant View.....	2.10
South Macon.....	2.10
South Wheatland.....	2.10
Whitmore.....	2.00

## MACOUPIN COUNTY

Township	Lime- stone	By- product of lead mines
Barr.....	\$2.20	\$2.00
Bird.....	2.10	1.90
Brighton.....	2.00	1.80
Brushy Mound.....	2.10	1.90
Bunker Hill.....	2.10	1.90
Cahokia.....	2.10	1.90
Carlinsville.....	2.10	1.90
Chesterfield.....	2.10	1.90
Dorchester.....	2.10	1.90
Gillespie.....	2.10	1.90
Girard.....	2.30	2.10
Hilyard.....	2.10	1.90
Honey Point.....	2.10	1.90
Mt. Olive-Staunton.....	2.10	1.90
Nilwood.....	2.20	2.00
North Otter.....	2.30	2.10
North Palmyra.....	2.30	2.10
Polk.....	2.10	1.90
Scottville.....	2.30	2.10
Shaw Point.....	2.10	1.90
Shipman.....	2.10	1.90
South Otter.....	2.20	2.00
South Palmyra.....	2.20	2.00
Viriden.....	2.30	2.10
Western Mound.....	2.20	2.00

## MADISON COUNTY

Township	Lime- stone
Alhambra.....	\$1.80
Chouteau.....	1.80
Collinsville.....	1.80
Edwardsville.....	1.80
Fort Russell.....	1.80
Foster.....	1.80
Godfrey.....	1.70
Harmel.....	1.80
Helvetia.....	1.90
Jarvis.....	1.80



## MADISON COUNTY—Continued

Township	Lime - stone
Leef .....	\$1.90
Marine .....	1.80
Moro .....	1.80
Nameoki .....	1.80
New Douglas .....	1.90
Olive .....	1.90
Omphgent .....	1.90
Pin Oak .....	1.80
St. Jacob .....	1.80
Saline .....	2.00
Venice .....	1.80
Wood River .....	1.70

## MARION COUNTY

Township	Lime - stone	By - product of lead mines
Alma .....	\$2.30	\$1.70
Carrigan .....	2.30	2.00
Centralia .....	2.20	1.70
Foster .....	2.40	2.20
Haines .....	2.30	1.90
Iuka .....	2.20	1.90
Kinmundy .....	2.20	2.00
Meacham .....	2.20	2.00
Odin-Sandoval .....	2.20	1.70
Omega .....	2.30	2.00
Patoka .....	2.20	2.00
Raccoon .....	2.30	2.00
Romine .....	2.40	2.10
Salem .....	2.20	1.60
Stevenson .....	2.30	1.70
Tonti .....	2.30	1.70

## MARSHALL COUNTY

Township	Lime - stone	No. 2 lime - stone
Bell Plain .....	\$1.80	---
Bennington .....	1.80	---
Evans .....	1.80	---
Henry .....	1.90	1.50
Hopewell .....	1.90	---
Lacon .....	2.00	---
La Prairie .....	2.10	1.40
Richland .....	1.90	---
Roberts .....	1.80	---
Saratoga .....	2.10	1.50
Steuben .....	2.00	1.50
Whitefield .....	2.00	1.50

## MASON COUNTY

Township	Lime - stone
Allen Grove .....	\$2.10
Bath .....	2.10
Crane Creek .....	2.10
Forest City .....	2.00
Havana .....	2.10
Kilbourne .....	2.00
Lynchburg .....	2.30
Manito .....	2.00
Mason City .....	2.10
Pennsylvania .....	2.10
Quiver .....	2.00
Salt Creek .....	2.10
Sherman .....	2.10

## MASSAC COUNTY

Benton .....	\$1.90
Brooklyn .....	1.90
George's Creek .....	1.60
Grant .....	1.80
Hillerman .....	1.60
Jackson .....	1.90
Lincoln .....	1.90
Logan .....	1.60
Washington .....	1.90

## MENARD COUNTY

Athens .....	\$1.90
Atterbury .....	2.30
Fancy Prairie .....	1.90
Greenview .....	2.10
Indian Creek .....	2.00
Irish Grove .....	2.10
Oakford .....	2.30
Petersburg .....	2.10
Rock Creek .....	2.20
Sandridge .....	2.20
Sugar Grove .....	1.90
Tallula .....	2.30

## MERCER COUNTY

Abington .....	1.90
Duncan .....	1.70
Eliza .....	1.90
Green .....	1.70
Keithsburg .....	2.00
Mercer .....	1.70
Millersburg .....	1.80
New Boston .....	1.90
North Henderson .....	1.80
Ohio Grove .....	1.80
Perryton .....	1.60
Preemption .....	1.60
Richland Grove .....	1.60
Rivoli .....	1.70
Suez .....	1.70

## MONROE COUNTY

Township	Lime-stone
Bluff.....	\$1.20
Columbia.....	1.20
Harrisonville.....	1.10
Mitchie.....	1.20
Moredock.....	1.20
New Design.....	1.30
New Hanover.....	1.30
Prairie Du Long.....	1.40
Renault.....	1.20
Waterloo.....	1.30

## MONTGOMERY COUNTY

Township	Lime-stone	By-product of lead mines
Audubon.....	\$2.10	\$1.90
Bois d'Arc.....	2.00	1.80
Butler Grove.....	2.00	1.80
East Fork.....	2.00	1.80
Fillmore.....	2.00	1.80
Grisham.....	2.00	1.80
Harvel.....	2.00	1.70
Hillsboro.....	2.00	1.80
Irving.....	2.00	1.80
Nokomis.....	2.10	1.90
North Litchfield.....	1.90	1.70
Pitman.....	2.00	1.80
Raymond.....	2.00	1.70
Roundtree.....	2.00	1.80
South Fillmore.....	2.00	1.80
South Litchfield.....	2.00	1.70
Walshville.....	2.00	1.80
Witt.....	2.00	1.80
Zanesville.....	2.00	1.70

## MORGAN COUNTY

Township	Lime-stone
Alexander.....	\$2.30
Arcadia.....	2.40
Centerville.....	2.30
Chapin.....	2.40
Concord.....	2.30
Franklin.....	2.30
Jacksonville.....	2.40
Literberry.....	2.40
Lynnville.....	2.40
Markham.....	2.40
Meredosia.....	2.30
Murrayville.....	2.40
Nortonville.....	2.40
Pisgah.....	2.40
Prentice.....	2.40
Sinclair.....	2.40
Waverly.....	2.30
Woodson.....	2.40

## MOULTRIE COUNTY

Township	Lime-stone
Dora.....	\$2.00
East Nelson.....	2.10
Jonathan Creek.....	2.00
Lovington.....	1.90
Lowe.....	2.00
Marrowbone.....	2.00
Sullivan.....	1.90
Whitely.....	2.10

## OGLE COUNTY

Brookville.....	\$1.40
Buffalo.....	1.40
Byron.....	1.40
Dement.....	1.40
Eagle Point.....	1.40
Flagg.....	1.40
Forreston.....	1.40
Grand Detour.....	1.40
Lafayette.....	1.40
Leaf River.....	1.40
Lincoln.....	1.40
Lynnville.....	1.40
Marion.....	1.40
Maryland.....	1.40
Monroe.....	1.40
Mount Morris.....	1.40
Nashua.....	1.40
Oregon.....	1.40
Pine Creek.....	1.40
Pine Rock.....	1.40
Rockvale.....	1.40
Scott.....	1.40
Taylor.....	1.40
White Rock.....	1.40
Woosung.....	1.40

## PEORIA COUNTY

Township	Lime-stone	No. 2 lime-stone
Akron.....	\$2.00	\$1.00
Brimfield.....	2.10	1.10
Chillicothe.....	2.00	1.20
Elmwood.....	2.10	1.30
Hallock.....	2.00	1.10
Hollis.....	2.10	1.60
Jubilee.....	2.10	1.20
Kickapoo.....	2.10	1.20
Limestone.....	2.10	1.40
Logan.....	2.10	1.40
Medina.....	2.00	1.10
Millbrook.....	1.90	1.20
Princeville.....	1.90	1.10
Radnor.....	1.90	1.10
Richwoods.....	2.00	1.20
Rosefield.....	2.10	1.20
Timber.....	2.10	1.50
Trivoli.....	2.10	1.50



## PERRY COUNTY

Township	Lime-stone	By-product of lead mines
4 - 1	\$1.80	\$1.50
4 - 2	1.80	1.50
4 - 3	1.80	1.50
4 - 4	1.70	1.40
5 - 1	1.80	1.50
5 - 2	1.80	1.50
5 - 3	1.80	1.50
5 - 4	1.70	1.40
6 - 1	1.80	1.50
6 - 2	1.80	1.50
6 - 3	1.80	1.50
6 - 4	1.60	1.40

## PIATT COUNTY

Township	Lime-stone
Bement	\$1.90
Blue Ridge	1.90
Cerro Gordo	2.00
Goose Creek	2.00
Monticello	1.90
Sangamon	1.90
Unity	2.00
Willow Branch	2.00

## PIKE COUNTY

Atlas	\$2.10
Barry	2.10
Chambersburg	2.40
Cincinnati	2.10
Derry	2.10
Detroit	2.00
Fairmount	2.10
Flint	2.10
Griggsville	2.10
Hadley	2.10
Hardin	1.90
Kinderhook	2.10
Levee	2.10
Martinsburg	1.90
Montezuma	1.70
Newburg	1.90
New Salem	2.10
Pearl	1.70
Perry	2.30
Pittsfield	2.00
Pleasant Hill	2.10
Pleasant Vale	2.10
Ross	2.10
Spring Creek	2.00

## POPE COUNTY

Township	Lime-stone
Alexander	\$1.90
Columbus	1.80
Eddyville	1.80
Golconda	1.80
Grand Pier	1.80
Jackson	2.10
Jefferson	2.00
Logan	1.90
Monroe	1.70
Polk	2.00
Union	2.10
Washington	1.90
Webster	1.90

## PULASKI COUNTY

America	\$1.70
Grand Chain	1.40
Karnak	1.40
Mound City	1.80
Mounds	1.80
Olmsted	1.50
Perks	1.40
Pulaski	1.60
Ullin	1.50
Villa Ridge	1.70
Wetaug	1.50

## PUTNAM COUNTY

Granville	\$1.70
Hennepin	1.80
Magnolia	1.80
Senachwine	1.90

## RANDOLPH COUNTY

Township	Lime-stone	By-product of lead mines
Baldwin	\$1.50	\$1.30
Blair	1.50	1.30
Bremen	1.50	1.30
Brewerville	1.20	1.00
Central	1.40	1.20
Chester	1.30	1.10
Coulterville	1.60	1.40
Ellis Grove	1.30	1.10
Evansville	1.30	1.10
Kaskaskia	1.30	1.10
Palestine	1.40	1.20
Percy	1.60	1.40
Prairie du Rocher	1.20	1.00
Redbud	1.40	1.20
Rockwood	1.50	1.30
Ruma	1.30	1.10
Sparta	1.50	1.30

## RANDOLPH COUNTY—Continued

Township	Lime-stone	By-product of lead mines
Steeleville.....	\$1.60	\$1.30
Tilden.....	1.60	1.40
Walsh.....	1.40	1.20
Wine Hill.....	1.60	1.40

## RICHLAND COUNTY

Bonpas.....	\$2.20	\$2.00
Claremont.....	2.10	1.90
Decker.....	2.20	2.00
Denver.....	2.30	2.10
German.....	2.30	2.10
Madison.....	2.20	2.00
Noble.....	2.10	1.90
Olney.....	2.10	1.90
Preston.....	2.30	2.10

## ROCK ISLAND COUNTY

Township	Lime-stone
Andalusia.....	\$1.40
Blackhawk.....	1.40
Bowling.....	1.40
Buffalo Prairie.....	1.60
Canoe Creek.....	1.30
Coal Valley.....	1.50
Coe.....	1.30
Cordova.....	1.30
Drury.....	1.70
Edgington.....	1.50
Hampton.....	1.40
Port Byron.....	1.30
Rural.....	1.40
South Moline.....	1.40
South Rock Island.....	1.40
Zuma.....	1.50

## ST. CLAIR COUNTY

Canteen.....	\$1.50
Caseyville.....	1.50
Centerville.....	1.40
Englemann.....	1.60
Fayetteville.....	1.60
Freeburg.....	1.50
Lebanon.....	1.70
Lenzburg.....	1.50
Marissa.....	1.60
Mascoutah.....	1.60
Millstadt.....	1.40
New Athens.....	1.50
O'Fallon.....	1.60
Prairie du Long.....	1.40
St. Clair.....	1.40
Shiloh Valley.....	1.50

## ST. CLAIR COUNTY—Continued

Township	Lime-stone
Smithton.....	\$1.40
Stookey.....	1.40
Sugar Loaf.....	1.30

## SALINE COUNTY

Township	Lime-stone	By-product of lead mines
Brushy.....	\$2.10	\$1.90
Carrier Mills.....	2.10	1.90
Cottage.....	2.10	1.90
Eldorado.....	2.00	1.80
Galatia.....	2.10	1.90
Harrisburg.....	2.10	1.90
Independence.....	2.20	2.00
Long Branch.....	2.20	2.00
Mountain.....	2.20	2.00
Raleigh.....	2.10	1.90
Rector.....	2.10	1.90
Stonefort.....	2.20	2.00
Tate.....	2.20	2.00

## SANGAMON COUNTY

Auburn.....	\$2.20	\$1.90
Ball.....	2.20	2.00
Buffalo Hart.....	2.10	-----
Cartwright.....	2.30	-----
Chatham.....	2.20	2.00
Clear Lake.....	2.20	2.00
Cooper.....	2.20	2.00
Cotton Hill.....	2.20	2.00
Curran.....	2.20	2.00
Divernon.....	2.10	1.90
Fancy Creek.....	2.10	-----
Gardner.....	2.20	2.00
Illiopolis.....	2.10	-----
Island Grove.....	2.20	2.00
Lanesville.....	2.20	-----
Loami.....	2.20	2.00
Maxwell.....	2.20	2.00
Mechanicsburg.....	2.20	-----
New Berlin.....	2.20	2.00
Pawnee.....	2.20	2.00
Rochester.....	2.20	2.00
Salisbury.....	2.20	-----
Springfield.....	2.20	2.00
Talkington.....	2.20	1.90
Williams.....	2.10	-----
Woodside.....	2.20	2.00



## SCHUYLER COUNTY

Township	Lime-stone	No. 2 lime-stone
Bainbridge	\$2.30	-----
Birmingham	2.10	\$1.70
Brooklyn	2.20	1.70
Browning	2.40	-----
Buena Vista	2.40	-----
Camden	2.20	1.70
Frederick	2.40	-----
Hickory	2.50	-----
Huntsville	2.20	1.50
Littleton	2.20	-----
Oakland	2.40	-----
Rushville	2.40	-----
Woodstock	2.40	-----

## SCOTT COUNTY

Township	Lime-stone
Alsey	\$2.20
Bloomfield	2.20
East Winchester	2.30
Exeter	2.40
Glasgow	2.20
Manchester	2.20
Merritt	2.40
Naples	2.30
North Bluffs	2.30
North Winchester	2.20
Oxville	2.30
Point Pleasant	2.30
Sandy	2.20
South Bluffs	2.30
South Winchester	2.20

## SHELBY COUNTY

Township	Lime-stone	By-product of lead mines
Ash Grove	\$2.20	\$2.00
Big Spring	2.20	2.00
Clarksburg	2.10	1.90
Cold Spring	2.10	1.90
Dry Point	2.00	1.80
Flat Branch	2.10	1.90
Herrick	2.00	1.80
Holland	2.10	1.90
Lakewood	2.10	1.90
Moweaqua	2.10	1.90
Oconee	2.10	1.90
Okaw	2.10	1.90
Penn	2.10	1.90
Pickaway	2.10	1.90
Prairie	2.10	1.90
Richland	2.20	2.00
Ridge	2.10	1.90

## SHELBY COUNTY—Continued

Township	Lime-stone	By-product of lead mines
Rose	\$2.10	\$1.90
Rural	2.10	1.90
Shelbyville	2.10	1.90
Sigel	2.20	2.00
Todd Point	2.10	1.90
Tower Hill	2.00	1.80
Windsor	2.20	2.00

## STARK COUNTY

Township	Lime-stone	No. 2 lime-stone
Elmira	\$2.20	\$1.40
Essex	2.10	1.10
Goshen	2.10	1.40
Osceola	2.20	1.40
Penn	2.10	1.30
Toulon	2.10	1.30
Valley	2.10	1.10
West Jersey	2.10	1.30

## STEPHENSON COUNTY

Township	Lime-stone	Lead mine refuse
Buckeye	\$1.30	\$1.10
Dakota	1.30	1.10
Erin	1.30	1.10
Florence	1.30	1.10
Freeport	1.30	1.10
Harlem	1.30	1.10
Jefferson	1.30	1.10
Kent	1.30	1.10
Lancaster	1.30	1.10
Loran	1.30	1.10
Oneco	1.30	1.10
Ridott	1.30	1.10
Rock Grove	1.30	1.10
Rock Run	1.30	1.10
Silver Creek	1.30	1.10
Waddams	1.30	1.10
West Point	1.30	1.10
Winslow	1.30	1.10

## TAZEWELL COUNTY

Township	Lime-stone
Boynton	\$2.00
Cincinnati	1.90
Deer Creek	2.00
Delevan	1.90

## TAZEWELL COUNTY—Continued

Township	Lime-stone
Dillon.....	\$1.80
Elm Grove.....	1.80
Fondulac.....	2.00
Groveland.....	1.70
Hittle.....	2.00
Hopedale.....	1.90
Little Mackinaw.....	2.00
Mackinaw.....	2.00
Malone.....	1.90
Morton.....	1.90
Pekin.....	1.80
Sand Prairie.....	1.80
Spring Lake.....	2.00
Tremont.....	1.90
Washington.....	2.00

## UNION COUNTY

Alto Pass.....	\$1.70
Anna.....	1.50
Balcom.....	1.50
Cobden.....	1.60
Dongola.....	1.50
Jonesboro.....	1.50
Lick Creek.....	1.80
Mill Creek.....	1.50
Misenheimer.....	1.60
Preston.....	1.80
Reynoldsville.....	1.70
Rich.....	1.90
Saratoga.....	1.70
Stokes.....	1.70
Union 1.....	1.70
Union 2.....	1.70

## VERMILION COUNTY

Blount.....	\$1.80
Butler.....	1.90
Carroll.....	1.60
Catlin.....	1.40
Danville.....	1.80
Elwood.....	1.80
Georgetown.....	1.60
Grant.....	1.80
Jamaica.....	1.40
Love.....	1.90
McKendree.....	1.80
Middlefork.....	1.90
Newell.....	1.90
Oakwood.....	1.70
Pilot.....	1.90
Ross.....	2.00
Sidell.....	1.40
South Ross.....	2.00
Vance.....	1.40

## WABASH COUNTY

Township	Lime-stone	By-product of lead mines
Belmont.....	\$2.20	\$2.00
Coffee-Compton.....	2.10	1.90
Friendsville.....	2.20	2.00
Lancaster.....	2.10	1.90
Lick Prairie.....	2.10	1.90
Mount Carmel.....	2.20	2.00
Wabash.....	2.30	2.10

## WARREN COUNTY

Township	Lime-stone
Berwick.....	\$1.90
Coldbrook.....	1.70
Ellison.....	1.90
Floyd.....	1.80
Greenbush.....	1.90
Hale.....	1.60
Kelly.....	1.70
Lenox.....	1.70
Monmouth.....	1.60
Point Pleasant.....	1.90
Roseville.....	1.90
Spring Grove.....	1.60
Sumner.....	1.60
Swan.....	1.90
Tomkins.....	1.70

## WASHINGTON COUNTY

Township	Lime-stone	By-product of lead mines
Ashley.....	\$1.80	\$1.50
Beaucoup.....	1.70	1.50
Bolo.....	1.70	1.50
Covington.....	1.70	1.50
Dubois.....	1.80	1.50
Hoyleton.....	1.70	1.50
Irvington.....	1.80	1.60
Johannisburg.....	1.70	1.50
Lively Grove.....	1.70	1.50
Nashville.....	1.60	1.40
Oakdale.....	1.60	1.40
Okawville.....	1.70	1.50
Pilot Knob.....	1.60	1.40
Plum Hill.....	1.70	1.50
Richview.....	1.80	1.60
Venedy.....	1.70	1.50



## WAYNE COUNTY

Township	Lime-stone	By-product of lead mines
Arrington	\$2.00	\$1.70
Barnhill	2.10	1.80
Bedford	2.00	1.70
Berry	2.10	1.90
Big Mound	2.10	1.80
Elm River	2.10	1.90
Four Mile	2.00	1.70
Garden Hill	2.00	1.70
Grover	2.00	1.70
Hickory Hill	2.10	1.80
Indian Prairie	2.10	1.80
Jasper	2.10	1.80
Keith	2.00	1.70
Lamard	2.00	1.70
Leech	2.10	1.80
Massilon	2.10	1.80
Mount Erie	2.30	2.00
Orchard	2.10	1.80
Orel	2.00	1.80
Zif	2.00	1.80

## WHITE COUNTY

Burnt Prairie	\$2.30	\$2.10
Carmi	2.20	2.00
Emma	2.50	2.30
Enfield	2.20	2.00
Gray	2.40	2.20
Hawthorne	2.40	2.20
Heralds Prairie	2.40	2.20
Indian Creek	2.20	2.00
Mill Shoals	2.30	2.10
Phillips	2.40	2.20

## WHITESIDE COUNTY

Township	Lime-stone	By-product of lead mines
Albany	\$1.60	
Clyde	1.60	
Coloma	1.50	
Erie	1.60	
Fenton	1.60	
Fulton	1.40	
Garden Plain	1.50	
Genesee	1.60	
Hahnman	1.80	
Hopkins	1.50	
Hume	1.60	
Jordan	1.50	
Lyndon	1.60	
Montmorency	1.60	

## WHITESIDE COUNTY—Continued

Township	Lime-stone
Mount Pleasant	\$1.50
Newton	1.60
Portland	1.70
Prophetstown	1.80
Sterling	1.60
Tampico	1.80
Union Grove	1.50
Ustick	1.50

## WILL COUNTY

Channahon	\$1.20
Crete	1.40
Custer	1.30
DuPage	1.40
Florence	1.30
Frankfort	1.40
Green Garden	1.40
Homer	1.40
Jackson	1.20
Joliet	1.00
Lockport	1.20
Manhattan	1.20
Monee	1.40
New Lennox	1.20
Peotone	1.30
Plainfield	1.40
Reed	1.30
Troy	1.30
Washington	1.50
Wesley	1.30
Wheatland	1.50
Will	1.40
Wilmington	1.30
Wilton	1.30

## WILLIAMSON COUNTY

Township	Lime-stone	By-product of lead mines
Blairsville	\$1.80	\$1.60
Carterville	1.80	1.60
Corinth	1.90	1.70
Crab Orchard	1.90	1.70
Creal Springs	1.80	1.60
East Marion	1.90	1.70
Grassy	2.00	1.80
Herrin	1.80	1.60
Lake Creek	1.90	1.70
Southern	1.80	1.60
Stonefort	2.00	1.80
West Marion	1.90	1.70

## WINNEBAGO COUNTY

Township	Lime- stone	Lead mine refuse
Burritt	\$1.30	\$1.10
Cherry Valley	1.30	1.10
Durand	1.30	1.10
Guilford	1.30	1.10
Harlem	1.30	1.10
Harrison	1.30	1.10
Laona	1.30	1.10
New Milford	1.30	1.10
Owen	1.30	1.10
Pecatonica	1.30	1.10
Rockford	1.30	1.10
Rockton	1.30	1.10
Roscoe	1.30	1.10
Seward	1.30	1.10
Shirland	1.30	1.10
Winnebago	1.30	1.10

## WOODFORD COUNTY

Township	Lime- stone
Cazenovia	\$2.00
Clayton	1.90
Cruger	2.00
El Paso	1.70
Greene	1.80
Kansas	1.90
Linn	1.90
Metamora	2.00
Minonk	1.60
Montgomery	2.00
Olio	2.00
Palestine	1.80
Panola	1.60
Partridge	2.10
Roanoke	1.90
Spring Bay	2.30
Worth	2.10



U. S. DEPARTMENT OF AGRICULTURE

☆ APR 16 1946 ☆

CURRENT SERIAL RECORD

LIBRARY

UNITED STATES DEPARTMENT OF AGRICULTURE  
Production and Marketing Administration  
Field Service Branch  
Washington 25, D. C.

Agricultural Conservation Program

North Central Region

Practice (17) has been amended to read as follows:

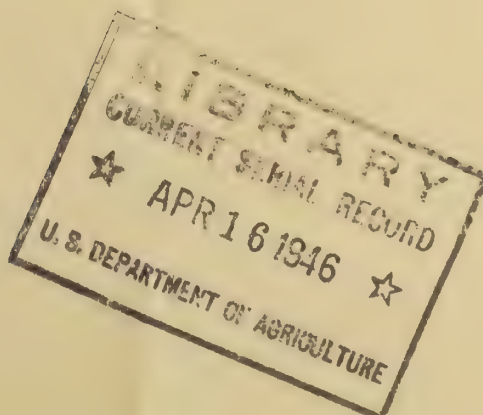
(17) Weed Eradication or Control on Cropland. Eradication or control of seriously infested plots of the following weeds by continuous cultivation during the entire growing season or by the use of chemicals: Canada thistle, bindweed or perennial sow thistle. Payment for this practice may be approved only on farms where approved weed control measures are being carried out on all adjacent infested farms and contiguous land, where the infestation is limited to a single farm, or where the county committee determines there is no likelihood of reinfestation. No crop may be taken from the land.

- (a) By use of sodium chlorate or other chemicals approved by the State Committee

\$0.06 per pound.

- (b) By continuous clean tillage

\$10.00 per acre.





人 和 己

UNITED STATES DEPARTMENT OF AGRICULTURE  
PRODUCTION AND MARKETING ADMINISTRATION  
Field Service Branch  
Washington 25, D. C.

Agricultural Conservation Program

North Central Region

Practice (16) Harvesting Hayseed, has been amended to read as follows:

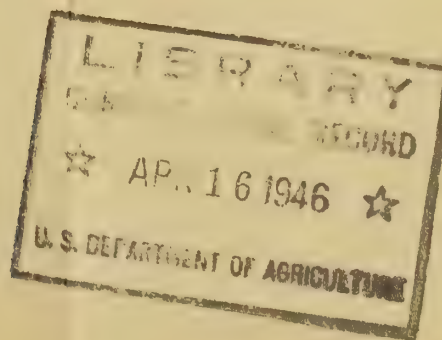
(16) Harvesting Hayseed - Acreage Basis. Harvesting for seed an acreage of alfalfa, red clover, and alsike. Credit will not be given for more than 25 acres per farm.

\$3.50 per acre.

A new practice No. (16A) has been added to read as follows:

(16A) Harvesting Red Clover, Alfalfa, and Alsike Clover - Pound Basis. Harvesting red clover, alfalfa, and alsike clover for seed provided such seed is sold to a dealer before January 1, 1947. Payment will be made on a clean seed basis. This practice will not require prior approval of the county committee.

(a) Red Clover	\$0.09 per pound.
(b) Alfalfa	\$0.07 per pound.
(c) Alsike Clover	\$0.07 per pound.



THE UNIVERSITY OF CHICAGO  
LIBRARY

THE UNIVERSITY OF CHICAGO  
LIBRARY

THE UNIVERSITY OF CHICAGO  
LIBRARY

THE UNIVERSITY OF CHICAGO  
LIBRARY

THE UNIVERSITY OF CHICAGO  
LIBRARY

THE UNIVERSITY OF CHICAGO  
LIBRARY

THE UNIVERSITY OF CHICAGO  
LIBRARY

THE UNIVERSITY OF CHICAGO  
LIBRARY

THE UNIVERSITY OF CHICAGO  
LIBRARY

THE UNIVERSITY OF CHICAGO  
LIBRARY

THE UNIVERSITY OF CHICAGO  
LIBRARY

THE UNIVERSITY OF CHICAGO  
LIBRARY



## UNITED STATES DEPARTMENT OF AGRICULTURE

## PRODUCTION AND MARKETING ADMINISTRATION

## FIELD SERVICE BRANCH

Washington, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

**INDIANA COMMITTEEMAN'S PRACTICE HANDBOOK**

The 1946 farm program is designed to assist the farmers of Indiana to the fullest possible extent in protecting their soils against damage from erosion and loss of fertility.

The county committee will designate those practices which will be approved for payment in the county in order that the available funds will be used most effectively to bring about increased conservation. Written approval by the county committee must be obtained for each practice to be performed on any individual's farm, prior to the carrying out of such practice except that practices performed before April 1, 1946, may be approved retroactively by the county committee.

**A. FUNDS AVAILABLE FOR CONSERVATION PRACTICES ON  
INDIVIDUAL FARMS**

The county and community committeemen will determine for each farm, on the basis of the conservation needs and farmer's intentions, maximum payments for each practice approved for the farm. The sum of the maximum payments approved cannot exceed the county limits approved for this purpose by the State committee. Official notice of such approval will be forwarded to the operator and other parties interested in the operation of the farm.

**B. CONSERVATION PRACTICES**

The practices available for 1946 are those which are most needed in order to conserve and improve soil fertility, improve pasture land, prevent wind and water erosion, and promote conservation and better utilization of water. Assistance will be available for carrying out the following practices during the program year January 1, 1946, through December 31, 1946. To qualify for payment, each practice must be carried out in accordance with the specifications for that practice and be in keeping with good farming practices for the locality.

Except as stated below, the total extent of any practice performed shall be reduced for purposes of payment by the percentage of the total cost of the practice which the county committee determines was furnished by a State or Federal agency. The extent of any practice shall not be reduced because a portion of the cost is represented by materials or services furnished by the F. S. B., or equipment furnished by

S. C. S., or materials or services furnished by an agency of a State or political subdivision thereof to another agency or political subdivision of the same State, or trees purchased from a Clark-McNary Cooperative State Nursery.

(1) **Standard terraces.**—Construction of standard terraces with a minimum settled ridge cross section of 10 square feet above the original ground level. Proper outlets must be provided. The terraces and outlets must be constructed to conform with the minimum specifications required by the State committee.—**\$1.50 per 100 linear feet.**

(2) **Diversion terraces.**—Construction of diversion terraces with a minimum settled ridge cross-section of 10 square feet above the original ground level. Proper outlets must be provided. The terraces and outlets must be constructed to conform to the minimum specifications required by the State committee.—**\$0.08 per cubic yard, but not in excess of \$8.00 per 100 linear feet.**

(3) **Establishing permanent grassed terrace outlets.**—Establishing permanent grassed outlets for terraces, which have been or will be constructed. The outlets must conform to the minimum specifications required by the State committee.—**\$0.75 per 1,000 square feet.**

(4) **Establishing sod waterways.**—Establishing a permanent sod waterway on any cropland where a permanent vegetative cover is necessary in a waterway channel, or in cultivated orchards. The channel of the waterway must be sufficiently wide to carry the run-off from the drainage area and must be at least 10 feet in width at the narrowest point. The channel must contain perennial grasses and a good vegetative growth must be obtained.—**\$0.75 per 1,000 square feet.**

(5) **Contouring cultivated row crops.**—Contour farming of cultivated row crops provided the crop stubble is left standing or a good stand of a winter cover crop is obtained. Credit will not be given if the crops are planted and cultivated with more than 3 percent deviation from the contour in each 100 feet. If there is danger of erosion in waterways, such waterways must be permanently established in sod. Contour lines must be laid out with an approved instrument.—**\$1.50 per acre.**

(6) **Contouring drilled crops.**—Contour drilling of small grain crops, sorghums, millet, or soybeans. No credit will be given if the crops are seeded with more than 3 percent deviation from the contour in each 100 feet. If there is danger of erosion in waterways, such waterways must be permanently established in sod. All tillage operations, including plowing, made in connection with the seeding must be on the contour. Contour lines must be laid out with an approved instrument.—**\$0.50 per acre.**

(7) **Contour strip cropping.**—Growing alternate strips of inter-tilled crops with sown, close-drilled, or sod crops, on the contour, provided: (1) the strips are approximately the same width, (2) the strips are not less than 3 rods nor more than 10 rods in width, (3) the crop stubble is left standing or a good stand of a winter cover crop is obtained, (4) the land has an average slope of 2 percent or over, (5) the strips do not deviate more than 3 percent from the contour in each 100 feet, and (6) the buffer strips are at least 1 rod in width. Contour lines must be laid out with an approved instrument. Credit may be

given under practice (5) or (6) for the acreage of intertilled crops or small grain crops which is included in the strip-cropping system.

(a) Less than 25 percent of the field in perennial grass or perennial legumes.—\$1.00 per acre.

(b) 25 percent or more of the field in perennial grass or perennial legumes.—\$2.50 per acre.

**(8) Field strip cropping not on the contour—water erosion.**—Growing alternate strips of intertilled crops with sown, close-drilled, or sod crops, on land determined by the county committee to be too irregular in slope to permit contour farming, provided: (1) the strips are approximately the same width, (2) the strips are not less than 3 rods nor more than 10 rods in width, (3) the crop stubble is left standing or a good stand of a winter cover crop is obtained, and (4) the strips are laid out across the general slope. Approval must not be given for this practice on fields containing over 40 acres.—\$0.75 per acre.

**(9) Dams for livestock water.**—Construction of earthen, concrete, or masonry dams for providing water for livestock. Earthen dams must be constructed with minimum slopes of three to one on the upstream side, and two to one on the downstream side. All sod vegetation and top soil should be cleaned from the dam site. A core trench cut to clear clay material should be made lengthwise the full length of the fill. This trench should be filled with a clay core which should be built up at least to the spillway elevation. A top width of 5 feet shall be provided on dams up to 10 feet in height, and 6 feet on dams up to 15 feet in height. Dams of 10 feet or less in height must have a freeboard of 3 feet. Dams from 10 to 15 feet in height must have a freeboard of 4 feet. A grassed spillway or sodded waterway at least 8 feet wide shall be provided for ponds with drainage areas up to 10 acres. For drainage areas from 10 to 25 acres in extent the spillway width shall be increased proportionately.

Credit will not be given unless the following conditions have been met:

(1) The depth of the water is at least 6 feet in 20 percent of the pond area.

(2) The water is piped out to a stockwater tank and a control valve is provided for regulating the flow of water to the tank.

(3) A trickle tube of bell tile or steel pipe with sealed joints is provided to carry excess water to stable grade below the dam. The trickle tube should be placed 6 inches below the spillway level, not through the fill but in solid ground and preferably opposite the spillway.

(4) The top dirt removed from the dam site must be spread over the top and downstream side of the fill, and the fill seeded with grass and legumes.

(5) The entire area of the pond and the dam is fenced to exclude livestock.

(a) For earth or other material moved.—\$0.12 per cubic yard.

(b) For concrete or masonry.—\$9.00 per cubic yard.

(c) For rubble masonry.—\$6.00 per cubic yard.

**(10) Construction of reservoirs for livestock water.**—Construction of reservoirs for livestock water on farms where suitable locations for construction of dams are not available or where the construction of such dams is not practicable. Reservoirs must not be approved unless the drainage is of sufficient size to guarantee sufficient run-off to provide ample water supplies for the reservoir. The reservoir must be constructed so that at least 20 percent of the area will be 6 feet deep. A pump siphon or gravity feed system must be installed



to convey the water to a stock-water tank. The reservoir must be fenced to exclude livestock.—**\$0.10 per cubic yard of material moved.**

(11) **Construction of forestry firebreaks.**—Construction of firebreaks at least 15 feet wide between woodland or forest plantations and existing fire hazards such as railroads and well traveled highways. The firebreak must be kept clean of all vegetative growth during dry periods.—**\$5.00 per 1,000 linear feet.**

(12) **Tree planting.**—Planting trees for forest purposes, gully control, or windbreak, in accordance with good tree culture. The trees must be protected from fire and grazing. The county committee must specify the site and species of trees to be planted. The following species will qualify provided they are adapted to the particular soil type, climatic condition, moisture condition, and site:

(a) For forest purposes: In all counties—black walnut and tulip poplar in woods opening on an 8' x 8' spacing; black locust, red pine, and white pine on a 6' x 6' spacing. In all counties to the south of Vermillion, Parke, Montgomery, Boone, Hamilton, Madison, Delaware, and Randolph—Virginia pine and short leaf pine for open field plantings on a 6' x 6' spacing.—**\$1.00 per 100 trees, but not in excess of \$7.50 per acre.**

(b) For gully control: in all counties—black locust, red pine, white pine, and jack pine. In all counties to the south of Vermillion, Parke, Montgomery, Boone, Hamilton, Madison, Delaware, and Randolph—Virginia pine and short leaf pine on a 6' x 6' spacing.—**\$1.00 per 100 trees, but not in excess of \$7.50 per acre.**

(c) For farmstead windbreaks: white pine, red pine, jack pine, and arbor vitae on a 10' x 10' spacing.—**\$2.00 per 100 trees.**

(d) For sand field windbreaks: white pine, jack pine, and red pine, on a 6' x 6' spacing.—**\$1.00 per 100 trees.**

(e) For muckland windbreaks: green hybrid willows in single rows 2 feet apart, or arbor vitae in single or double rows 6 feet apart.—**\$1.00 per 100 trees.**

(13) **Establishing new pasture or reseeding depleted noncrop open pasture.**—Establishing pasture on land which will remain under permanent vegetative cover or reseeding a depleted pasture on land designated as noncrop open pasture. A satisfactory seed bed must be prepared and necessary amounts of lime and fertilizer must be applied. Grazing must be deferred until the new seeding has been established. Only the following mixtures will qualify for credit:

(a) In the following counties: Bartholomew, Brown, Clarke, Clay, Crawford, Daviess, Dearborn, Decatur, Dubois, Floyd, Franklin, Gibson, Greene, Harrison, Jackson, Jefferson, Jennings, Johnson, Knox, Lawrence, Martin, Monroe, Morgan, Ohio, Orange, Owen, Perry, Pike, Posey, Ripley, Rush, Scott, Shelby, Spencer, Sullivan, Switzerland, Vanderburgh, Vigo, Warrick and Washington—3 lbs. of redbud, 4 lbs. of bluegrass, 2 lbs. of timothy, 4 lbs. of red clover, and 6 lbs. of lespedeza.—**\$3.50 per acre.**

(b) In all other counties: 5 lbs. of bluegrass, 2 lbs. of timothy, 6 lbs. of red clover, and 1 lb. of alsike or ladino.—**\$3.50 per acre.**

(14) **Green manure crops.**—Disking or plowing under a good stand and a good growth of the following crops. If the land is subject to erosion, and the green manure crop is turned under in the fall, the land must be protected by a winter cover crop.—**\$1.50 per acre.**

(a) Oats, barley, wheat, or soybeans, in orchards or on vegetable land.

(b) 1945 fall seedlings of winter rye, ryegrass, winter vetch, or crimson clover.

(c) Sweet clover.

(15) **Go-down crops in commercial orchards.**—Protecting the soil from wind and water erosion by the use of go-down crops, pro-

vided a good vegetative growth is obtained and the crop is not harvested for pasture or hay, grain, seed, or forage. The crop must remain on the land at least until January 1, 1947.

(a) Sudan grass, millet, buckwheat, sweet sorghums, small grains, or mixtures of these crops.

(b) Soybeans or cowpeas.

(c) 1946 spring seedings of lespedeza.  
\$1.50 per acre.

(16) **Seeding winter legumes for cover.**—Seeding winter vetch or crimson clover in the fall of 1946 for winter cover. The crop must be seeded early enough to obtain sufficient growth to provide an adequate cover during the winter and a good stand and a good growth must be obtained.

(a) Seeding not less than 20 lbs. of winter vetch.—\$2.75 per acre.

(c) Seeding not less than 12 lbs. of crimson clover.—\$2.50 per acre.

(17) **Weed eradication on cropland.**—Eradication of seriously infested plots of the following weeds: Canada thistle, bindweed or perennial sow thistle. Payment for this practice may be approved only on farms where approved weed control measures are being carried out on all adjacent infested farms and contiguous land, where the infestation is limited to a single farm, or where the county committee determines there is no likelihood of reinfestation. No crop may be taken from the land but the weeds may be cut and removed before tillage is begun.

(a) By use of sodium chlorate or other chemicals approved by the State committee.—\$0.06 per pound.

(b) By continuous clean tillage.—\$10.00 per acre.

(18) **Application of boron to alfalfa.**—Application of 25 to 35 lbs. per acre of agricultural mesh borax to alfalfa where boron deficiency symptoms are present.—\$1.00 per acre.

(19) **Harvesting hayseed.**—Harvesting for seed an acreage of alfalfa, alsike, or red clover. Credit will not be given for more than 25 acres per farm.—\$3.50 per acre.

(20) **Construction of open farm drainage ditches.**—Construction or enlargement of open farm drainage ditches (except public ditches) including lateral and lead ditches, for which proper outlets are provided, and adequate provision is made for the entrance of water into and out of the ditch. The ditch must have sufficient capacity to remove the normal excess surface water. Credit will not be given for material moved in cleaning the ditch.—\$0.08 per cubic yard, but not in excess of \$8.00 per 100 linear feet.

(21) **Excavation of ditches for tile drainage.**—Excavation for the installation tile drains provided: (1) the size of tile, outlets, and gradients meet the specifications for standard drainage as recommended by the U. S. Department of Agriculture; (2) not less than 75 percent of the area to be drained is cropland; and (3) no part of the tile line is to be used for any purpose other than the draining of agricultural land.—\$0.40 per rod.

(22) **Mulching materials.**—Application of small grain straw, or the crop residue obtained from harvesting legumes or grasses for seed, to commercial orchards, vineyards, commercial vegetable land, or strawberries or other small fruit.—\$5.00 per ton.

(23) **Liming materials.**—(Credit rates are contained in NCR-46-1, supplement 1.) Application of the following materials:

(a) One ton of agricultural ground limestone containing at least 80 percent calcium carbonate equivalent, and ground sufficiently fine so that 80 percent including all of the finer particles obtained in the grinding process will pass through a U. S. Standard No. 8 sieve and 20 percent through a U. S. Standard No. 100 sieve. The moisture content at the time of shipment must not exceed 8 percent. The calcium carbonate equivalent and the percent passing through a U. S. Standard 8 sieve must be at least 80 and one or both must be greater than 80 so that the multiplication of the percent of calcium carbonate equivalent and the percent of the material passing through a U. S. Standard No. 8 sieve will be equal to or in excess of 0.72.

(b) One ton of calcium carbide refuse lime containing at least 85 percent calcium carbonate equivalent and testing not more than 35 percent moisture at the shipping point.

(c) One cubic yard of marl containing at least 70 percent calcium carbonate equivalent.

(d) One cubic yard of water-softening process lime containing at least 70 percent calcium carbonate equivalent.

(e) One ton of burnt lime waste containing at least 90 percent calcium carbonate equivalent and testing not more than 20 percent moisture at the shipping point.

(f) One ton of commercial burnt lime containing at least 90 percent calcium carbonate equivalent and testing not more than 20 percent moisture at the loading point.

(g) One ton of hydrated lime.

A correspondingly greater amount of material must be required if the material does not meet the specifications.

(24) **Fertilizers.**—Application of superphosphate, defluorinated phosphate rock, or potash to: (1) **pastures**; (2) **new seedings** of biennial or perennial legumes, perennial grasses, winter legumes, or lespedeza, seeded without a nurse crop, or with a spring seeded nurse crop; (3) **old stands** of biennial or perennial legumes, or perennial grasses, provided the acreage on which such applications are made is not devoted to, cultivated for, or plowed for any other crop prior to January 1, 1947; and (4) **green manure crops** in orchards. No credit will be given for material furnished by the Government if wheat is used as a nurse crop.

(a) Superphosphate or defluorinated phosphate rock.—\$3.50 per 100 pounds of available  $P_2O_5$ .

(b) Potash.—\$2.50 per 100 pounds of available  $K_2O$ .

(c) 100 lbs. of 0-9-27----- \$1. 00

(d) 100 lbs. of 0-10-20---- 0. 80

(e) 100 lbs. of 0-12-12---- 0. 70

(f) 100 lbs. of 0-14-7----- 0. 70

(g) 100 lbs. of 0-14-14---- 0. 80

(h) 100 lbs. of 0-18-0----- 0. 60

(i) 100 lbs. of 0-19-0----- 0. 70

(j) 100 lbs. of 0-20-0----- 0. 70

(k) 100 lbs. of 0-20-10---- 0. 90

(l) 100 lbs. of 0-20-20---- 1. 20

(m) 100 lbs. of 2-12-6----- \$0. 60

(n) 100 lbs. of 2-16-8----- 0. 80

(o) 100 lbs. of 3-9-18----- 0. 80

(p) 100 lbs. of 3-12-12---- 0. 70

(q) 100 lbs. of 3-18-9----- 0. 90

(r) 100 lbs. of 4-10-6----- 0. 50

(s) 100 lbs. of 4-16-0----- 0. 60

(t) 100 lbs. of 8-8-8----- 0. 50

(u) 100 lbs. of 10-6-4----- 0. 30

(25) **Fertilizers.**—Application of superphosphate, defluorinated phosphate rock, or potash to new seedings of biennial or perennial legumes, perennial grasses, winter legumes, or lespedeza, seeded with a fall seeded small grain nurse crop. No credit will be given for material furnished by the Government.



(a) Superphosphate or defluorinated phosphate rock.—\$1.75 per 100 pounds of available  $P_2O_5$ .

(b) Potash.—\$1.25 per 100 pounds of available  $K_2O$ .

(c) 100 lbs. of 0-9-27_____	\$0.50	(m) 100 lbs. of 2-12-6_____	\$0.30
(d) 100 lbs. of 0-10-20_____	0.40	(n) 100 lbs. of 2-16-8_____	0.40
(e) 100 lbs. of 0-12-12_____	0.40	(o) 100 lbs. of 3-9-18_____	0.40
(f) 100 lbs. of 0-14-7_____	0.40	(p) 100 lbs. of 3-12-12_____	0.40
(g) 100 lbs. of 0-14-14_____	0.40	(q) 100 lbs. of 3-18-9_____	0.50
(h) 100 lbs. of 0-18-0_____	0.30	(r) 100 lbs. of 4-10-6_____	0.30
(i) 100 lbs. of 0-19-0_____	0.40	(s) 100 lbs. of 4-16-0_____	0.30
(j) 100 lbs. of 0-20-0_____	0.40	(t) 100 lbs. of 8-8-8_____	0.30
(k) 100 lbs. of 0-20-10_____	0.50	(u) 100 lbs. of 10-6-4_____	0.20
(l) 100 lbs. of 0-20-20_____	0.60		

(26) **Rock phosphate.**—Application of rock phosphate containing at least 30 percent phosphoric acid to any crop.—\$0.20 per 100 pounds.

### C. POOLING AGREEMENTS

Producers in any local area may agree in writing, with the approval of the county and State committees, to cooperatively perform the following practices on one or more of the farms operated by such producers, provided all of their farms are benefited by the performance of such practices: Practice (20), Construction of Open Farm Drainage Ditches, or Practice (21), Excavation of Ditches for Tile Drainage. Instructions for carrying out a pooling agreement are contained in NCR-46-2.

LIBRARY  
CURRENT SERIAL RECORD  
☆ APR 16 1946 ☆  
U.S. DEPARTMENT OF AGRICULTURE

UNITED STATES DEPARTMENT OF AGRICULTURE  
PRODUCTION AND MARKETING ADMINISTRATION  
FIELD SERVICE BRANCH—WASHINGTON, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

SUPPLEMENT 1 TO INDIANA COMMITTEEMAN'S  
PRACTICE HANDBOOK

1946 CREDIT RATES FOR LIMING MATERIALS

Following are the materials for which the credit rates are the same throughout the State:

Type of material	Credit rate
Calcium carbide refuse lime.....	\$1.40 per ton.
Water-softening process lime.....	.70 per cu. yd.
Burnt lime waste.....	1.40 per ton.
Commercial burnt lime.....	4.00 per ton.
Hydrated lime .....	4.00 per ton.

The following are the credit rates for the other materials for which credit will be given in your county. The rates for limestone are on a ton basis and the rates for marl are on a cubic yard basis.

ADAMS COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Blue Creek.....	\$1.30	Kirkland.....	\$1.40	St. Marys.....	\$1.30
French.....	1.30	Monroe.....	1.40	Union.....	1.40
Hartford.....	1.30	Preble.....	1.50	Wabash.....	1.20
Jefferson.....	1.10	Root.....	1.30	Washington.....	1.50

ALLEN COUNTY

Aboite.....	\$1.50	Lake.....	\$1.70	Pleasant.....	\$1.50
Adams.....	1.70	Madison.....	1.50	Scipio.....	2.10
Cedar Creek.....	2.00	Marion.....	1.40	Springfield.....	2.10
Eel River.....	2.00	Maumee.....	1.90	St. Joseph.....	1.90
Jackson.....	1.40	Milan.....	1.90	Washington.....	1.90
Jefferson.....	1.40	Monroe.....	1.60	Wayne.....	1.50
Lafayette.....	1.50	Perry.....	2.00		

BARTHOLOMEW COUNTY

Township	Limestone
All townships.....	\$1.40

BENTON COUNTY

Township	Limestone	Marl
All townships.....	\$2.50	\$1.20

BLACKFORD COUNTY

Township	Limestone
All townships.....	\$1.30

BOONE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Center.....	\$2.20	Jackson.....	\$1.70	Sugar Creek.....	\$2.20
Clinton.....	2.10	Jefferson.....	2.30	Union.....	2.20
Eagle.....	2.30	Marion.....	2.30	Washington.....	2.30
Harrison.....	2.10	Perry.....	2.30	Worth.....	2.30



## BROWN COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Hamblen	\$1.80	Johnson	\$2.00	Washington	\$2.00
Jackson	2.00	Van Buren	1.80		

## CARROLL COUNTY

Township	Lime- stone	Marl	Township	Lime- stone	Marl
Adams	\$1.50	\$0.80	Jefferson	\$1.50	\$0.80
Burlington	1.80	.80	Liberty	1.60	.80
Carrollton	1.60	.80	Madison	1.60	.80
Clay	1.60	.80	Monroe	1.50	.80
Deer Creek	1.50	.80	Rock Creek	1.50	.80
Democrat	1.70	.80	Tippecanoe	1.50	.80
Jackson	1.60	.80	Washington	1.60	.80

## CASS COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Adams	\$1.50	Deer Creek	\$1.50	Miami	\$1.40
Bethlehem	1.50	Eel	1.40	Noble	1.30
Boone	1.40	Harrison	1.30	Tipton	1.40
Clay	1.30	Jackson	1.50	Washington	1.30
Clinton	1.30	Jefferson	1.40		

## CLARK COUNTY

Bethlehem	\$1.40	Monroe	\$1.20	Union	\$1.10
Carr	1.10	Oregon	1.20	Utica	1.10
Charlestown	1.10	Owen	1.20	Washington	1.20
Jeffersonville	1.00	Silver Creek	.90	Wood	1.40

## CLAY COUNTY

Cass	\$1.40	Lewis	\$2.30	Van Buren	\$1.40
Dick Johnson	1.50	Perry	1.60	Washington	1.60
Harrison	2.10	Posey	1.50		
Jackson	1.40	Sugar Ridge	1.60		

## CLINTON COUNTY

Center	\$1.70	Madison	\$1.90	Sugar Creek	\$2.00
Forest	1.90	Michigan	1.90	Union	2.00
Jackson	1.90	Owen	1.90	Warren	1.90
Johnson	2.00	Perry	2.10	Washington	2.10
Kirklin	2.10	Ross	1.90		

## CRAWFORD COUNTY

Boone	\$1.70	Liberty	\$1.10	Sterling	\$1.20
Jennings	1.30	Ohio	1.50	Union	1.70
Johnson	1.70	Patoka	1.70	Whiskey Run	1.20

## DAVISS COUNTY

Barr	\$2.10	Madison	\$2.20	Veale	\$2.40
Bogard	2.40	Reeve	2.40	Washington	2.20
Elmore	2.30	Steele	2.40		
Harrison	2.40	Van Buren	2.20		

## DEARBORN COUNTY

Township	Limestone
All townships	\$1.70

## DECATUR COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Adams.....	\$1.50	\$0.80	Marion.....	\$1.60	\$0.80
Clay.....	1.60	.80	Salt Creek.....	1.40	.70
Clinton.....	1.50	.80	Sand Creek.....	1.50	.80
Fugit.....	1.50	.80	Washington.....	1.50	.80
Jackson.....	1.30	.70			

## DEKALB COUNTY

Township	Limestone	Marl
All Townships.....	\$2.30	\$0.90

## DELAWARE COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Center.....	\$1.40	\$0.70	Mt. Pleasant.....	\$1.60	\$0.70
Delaware.....	1.20	.60	Niles.....	1.20	.60
Hamilton.....	1.10	.60	Perry.....	1.70	.70
Harrison.....	1.40	.70	Salem.....	1.70	.70
Liberty.....	1.50	.70	Union.....	1.00	.50
Monroe.....	1.50	.70	Washington.....	1.30	.60

## DUBOIS COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Bainbridge.....	\$1.90	Ferdinand.....	\$2.30	Jefferson.....	\$1.90
Boone.....	2.00	Hall.....	2.00	Madison.....	2.10
Cass.....	2.30	Harbison.....	1.70	Marion.....	2.00
Columbia.....	1.50	Jackson.....	2.00	Patoka.....	2.30

## ELKHART COUNTY

Township	Lime stone	Marl	No. 2 Limestone	Township	Lime-stone	Marl	No. 2 Limestone
Baugo.....	\$2.10	\$1.00	\$1.90	Jefferson.....	\$2.10	\$0.90	\$1.90
Benton.....	2.10	1.10	1.90	Locke.....	2.10	.90	1.90
Cleveland.....	2.10	1.10	1.90	Middlebury.....	2.10	.80	1.90
Clinton.....	2.10	.90	1.90	Olive.....	2.10	1.00	1.90
Concord.....	2.10	.90	1.90	Osolo.....	2.10	1.10	1.90
Elkhart.....	2.10	.90	1.90	Union.....	2.10	.90	1.90
Harrison.....	2.10	.90	1.90	Washington.....	2.10	1.00	1.90
Jackson.....	2.10	.90	1.90	York.....	2.10	.90	1.90

## FAYETTE COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Columbia.....	\$2.20	\$1.10	Jennings.....	\$2.30	\$1.10
Connerville.....	2.20	1.10	Orange.....	2.00	1.00
Fairview.....	1.80	.90	Posey.....	2.30	1.10
Harrison.....	2.20	1.10	Waterloo.....	2.30	1.10
Jackson.....	2.40	1.10			

## FLOYD COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Franklin.....	\$1.20	Greenville.....	\$1.50	New Albany.....	\$1.00
Georgetown.....	1.50	Lafayette.....	1.30		

## FOUNTAIN COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Cain.....	\$2.00	\$1.00	Richland.....	\$2.10	\$1.00
Davis.....	2.30	1.00	Shawnee.....	2.10	1.00
Fulton.....	2.10	1.00	Troy.....	2.10	1.00
Jackson.....	1.80	.90	Van Buren.....	2.10	1.00
Logan.....	2.30	1.00	Wabash.....	2.20	1.00
Mill Creek.....	1.90	1.00			

## FRANKLIN COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Bath.....	\$2.10	Highland.....	\$1.80	Salt Creek.....	\$1.70
Blooming Grove.....	2.10	Laurel.....	2.20	Springfield.....	1.80
Brookville.....	2.10	Metamora.....	2.10	Whitewater.....	1.90
Butler.....	1.70	Posey.....	2.20		
Fairfield.....	2.20	Ray.....	1.50		

## FULTON COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Aubbeenaubee.....	\$2.30	\$0.80	Richland.....	\$2.30	\$0.80
Henry.....	2.30	.80	Rochester.....	2.10	.80
Liberty.....	1.70	.80	Union.....	1.90	.80
Newcastle.....	2.30	.80	Wayne.....	1.70	.80

## GIBSON COUNTY

Township	Limestone
All townships.....	\$2.30

## GRANT COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Center.....	\$1.50	Liberty.....	\$1.50	Sims.....	\$1.20
Fairmount.....	1.50	Mill.....	1.50	Van Buren.....	1.50
Franklin.....	1.20	Monroe.....	1.50	Washington.....	1.50
Green.....	1.50	Pleasant.....	1.20		
Jefferson.....	1.50	Richland.....	1.20		

## GREENE COUNTY

Beech Creek.....	\$1.70	Highland.....	\$2.00	Stafford.....	\$2.20
Cass.....	2.30	Jackson.....	2.00	Stockton.....	2.20
Center.....	1.70	Jefferson.....	1.70	Taylor.....	2.00
Fairplay.....	1.90	Richland.....	1.80	Washington.....	2.30
Grant.....	1.90	Smith.....	1.90	Wright.....	2.10

## HAMILTON COUNTY

Adams.....	\$2.00	Fall Creek.....	\$1.60	Washington.....	\$1.90
Clay.....	1.90	Jackson.....	2.00	Wayne.....	1.40
Delaware.....	1.70	Noblesville.....	1.50	White River.....	1.50

## HANCOCK COUNTY

Township	Limestone
All townships.....	\$2.10



## HARRISON COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Blue River	\$1.40	Jackson	\$1.30	Taylor	\$1.40
Boone	1.20	Morgan	1.40	Washington	1.40
Franklin	1.20	Posey	1.30	Webster	1.30
Harrison	1.30	Scott	1.40		
Heth	1.40	Spencer	1.40		

## HENDRICKS COUNTY

Brown	\$2.10	Franklin	\$1.80	Marion	\$2.00
Center	2.00	Guilford	2.20	Middle	2.10
Clay	1.80	Liberty	1.90	Union	2.10
Eel River	1.90	Lincoln	2.10	Washington	2.20

## HENRY COUNTY

Township	Limestone	Marl
All townships	\$2.10	\$1.10

## HOWARD COUNTY

Township	Limestone	Marl	Township	Limestone	Marl
Center	\$1.70	\$0.80	Jackson	\$1.60	\$0.80
Clay	1.50	.70	Liberty	1.70	.80
Ervin	1.50	.70	Monroe	1.80	.80
Harrison	1.90	.80	Taylor	1.90	.80
Honey Creek	1.90	.80	Union	2.00	.80
Howard	1.80	.80			

## HUNTINGTON COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Clear Creek	\$1.30	Jefferson	\$1.50	Salamonie	\$1.30
Dallas	1.30	Lancaster	1.30	Union	1.20
Huntington	1.30	Polk	1.40	Warren	1.40
Jackson	1.30	Rock Creek	1.30	Wayne	1.50

## JACKSON COUNTY

Brownstown	\$1.60	Hamilton	\$1.50	Redding	\$1.40
Carr	1.50	Jackson	1.40	Salt Creek	1.70
Driftwood	1.60	Owen	1.50	Vernon	1.40
Grassy Fork	1.50	Pershing	1.70	Washington	1.50

## JASPER COUNTY

Township	Limestone	Marl	No. 2 Limestone	Township	Limestone	Marl	No. 2 Limestone
Barkley	\$1.50	\$0.80	\$1.30	Marion	\$1.20	\$0.60	\$1.00
Carpenter	1.40	.70	1.20	Milroy	1.40	.70	1.20
Gillam	1.60	.80	1.40	Newton	1.40	.70	1.20
Hanging Grove	1.50	.80	1.30	Union	1.40	.70	1.20
Jordan	1.30	.70	1.10	Walker	1.60	.80	1.40
Kankakee	1.80	.80	1.60	Wheatfield	1.60	.80	1.40
Keener	1.60	.80	1.40				

## JAY COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Bear Creek	\$1.00	Knox	\$1.00	Pike	\$1.10
Greene	1.00	Madison	1.10	Richland	1.10
Jackson	1.20	Noble	1.00	Wabash	1.00
Jefferson	1.10	Penn	1.20	Wayne	1.00

## JEFFERSON COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Graham-----	\$1.50	Milton-----	\$2.00	Saluda-----	\$1.30
Hanover-----	1.40	Monroe-----	1.90	Shelby-----	2.00
Lancaster-----	1.20	Republican-----	1.40	Smyrna-----	1.60
Madison-----	1.60				

## JENNINGS COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Bigger-----	\$1.20	\$0.60	Marion-----	\$1.30	\$0.60
Campbell-----	1.10	.60	Montgomery-----	1.20	.60
Center-----	1.00	.50	Sand Creek-----	1.10	.60
Columbia-----	1.30	.60	Spencer-----	1.20	.60
Geneva-----	1.20	.60	Vernon-----	1.10	.60
Lovett-----	1.10	.60			

## JOHNSON COUNTY

Township	Limestone
All townships-----	\$2.10

## KNOX COUNTY

All townships-----	\$2.40
--------------------	--------

## KOSCIUSKO COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Clay-----	\$2.10	\$1.00	Prairie-----	\$2.30	\$1.00
Etna-----	2.30	1.00	Scott-----	2.30	1.00
Franklin-----	2.30	1.00	Seward-----	2.30	1.00
Harrison-----	2.30	1.00	Tippecanoe-----	2.30	1.00
Jackson-----	1.80	1.00	Turkey Creek-----	2.30	1.00
Jefferson-----	2.30	1.00	Van Buren-----	2.30	1.00
Lake-----	1.90	1.00	Washington-----	2.00	1.00
Monroe-----	1.90	1.00	Wayne-----	2.10	1.00
Plain-----	2.30	1.00			

## LAGRANGE COUNTY

Township	Limestone	Marl	No. 2 Limestone
All townships-----	\$2.40	\$0.90	\$1.90

## LAKE COUNTY

Township	Limestone	No. 2 Limestone
All townships-----	\$1.40	\$1.20

## LAPORTE COUNTY

Township	Limestone	Marl	No. 2 Limestone
All townships-----	\$2.10	\$0.80	\$1.90

## LAWRENCE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Bono-----	\$1.90	Marion-----	\$1.70	Pleasant Run-----	\$1.50
Guthrie-----	1.90	Marshall-----	1.80	Shawswick-----	1.60
Indian Creek-----	1.70	Perry-----	1.80	Spice Valley-----	1.80

## MADISON COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Adams-----	\$1.50	Green-----	\$1.00	Richland-----	\$1.90
Anderson-----	1.40	Jackson-----	1.60	Stoney Creek-----	1.40
Boone-----	1.90	Lafayette-----	1.70	Union-----	1.70
Duck Creek-----	1.90	Monroe-----	1.90	Van Buren-----	1.90
Fall Creek-----	1.00	Pipe Creek-----	1.90		

## MARION COUNTY

Township	Limestone
All townships	\$2.40

## MARSHALL COUNTY

Township	Lime-stone	Marl	No. 2 Limestone	Township	Lime-stone	Marl	No. 2 Limestone
Bourbon	\$2.30	\$0.90	\$1.90	Polk	\$2.10	\$0.90	\$1.90
Center	2.10	.90	1.90	Tippecanoe	2.30	.90	1.90
German	2.30	.90	1.90	Union	2.10	.90	1.90
Green	2.10	.90	1.90	Walnut	2.30	.90	1.90
North	2.10	.90	1.90	West	2.10	.90	1.90

## MARTIN COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Brown	\$2.00	Lost River	\$2.00	Perry	\$2.00
Center	2.00	McCameron	2.10	Rutherford	2.10
Halbert	2.00	Mitchelltree	2.10		

## MIAMI COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Allen	\$1.90	\$0.80	Jefferson	\$1.60	\$0.80
Butler	1.70	.80	Perry	2.00	.80
Clay	1.60	.80	Peru	1.50	.80
Deer Creek	1.60	.80	Pipe Creek	1.50	.80
Erie	1.70	.80	Richland	1.50	.80
Harrison	1.60	.80	Union	1.70	.80
Jackson	1.50	.80	Washington	1.50	.80

## MONROE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Bean Blossom	\$1.50	Indian Creek	\$1.40	Richland	\$1.50
Benton	1.50	Marion	1.60	Salt Creek	1.50
Bloomington	1.30	Perry	1.20	Van Buren	1.50
Clear Creek	1.50	Polk	1.70	Washington	1.40

## MONTGOMERY COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Brown	\$1.40	\$0.90	Scott	\$1.40	\$0.90
Clark	1.70	.90	Sugar Creek	2.00	.90
Coal Creek	2.00	.90	North Union	1.80	.90
Franklin	2.00	.90	South Union	1.50	.90
Madison	2.00	.90	Walnut	1.90	.90
Ripley	1.90	.90	Wayne	1.80	.90

## MORGAN COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Adams	\$2.10	Green	\$2.10	Madison	\$2.10
Ashland	2.00	Gregg	2.00	Monroe	2.10
Baker	1.70	Harrison	2.10	Ray	1.80
Brown	2.10	Jackson	2.10	Washington	1.80
Clay	2.00	Jefferson	1.90		



# NEWTON COUNTY

Township	Limestone	No. 2 Limestone
All townships	\$1.40	\$1.20

# NOBLE COUNTY

Township	Limestone	Marl	Township	Limestone	Marl
Allen	\$2.30	\$0.90	Perry	\$2.60	\$0.90
Elkhart	2.40	.90	Sparta	2.40	.90
Green	2.10	.90	Swan	2.20	.90
Jefferson	2.20	.90	Washington	2.20	.90
Noble	2.10	.90	Wayne	2.50	.90
Orange	2.40	.90	York	2.20	.90

# OHIO COUNTY

Township	Limestone	Marl
All townships	\$2.10	\$0.80

# ORANGE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
French Lick	\$1.20	Northwest	\$1.50	Paoli	\$1.10
Greenfield	1.50	Orangeville	1.30	Southeast	1.50
Jackson	1.50	Orleans	1.20	Stampers Creek	1.30
Northeast	1.40				

# OWEN COUNTY

Clay	\$1.60	Jennings	\$1.80	Taylor	\$1.70
Franklin	1.70	Lafayette	1.70	Washington	1.50
Harrison	1.80	Marion	1.80	Wayne	1.60
Jackson	1.90	Montgomery	1.60		
Jefferson	1.90	Morgan	1.70		

# PARKE COUNTY

Township	Limestone	Marl	Township	Limestone	Marl
Adams	\$1.60	\$0.80	Raccoon	\$1.90	\$0.90
Florida	2.10	.90	Reserve	1.90	.90
Greene	1.40	.70	Sugar Creek	1.70	.90
Howard	1.40	.70	Union	1.70	.90
Jackson	2.10	.90	Wabash	2.00	.90
Liberty	1.90	.90	Washington	1.50	.80
Penn	1.60	.80			

# PERRY COUNTY

Township	Limestone	Marl	Township	Limestone	Marl
Anderson	\$1.90	\$0.80	Tobin	\$2.00	\$0.80
Clark	2.00	.80	Troy	2.00	.80
Leopold	1.70	.80	Union	1.70	.80
Oil	1.70	.80			

# PIKE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Clay	\$2.30	Logan	\$2.30	Monroe	\$2.30
Jefferson	2.10	Madison	2.30	Patoka	2.30
Lockhart	2.40	Marion	2.20	Washington	2.20

## PORTER COUNTY

Township	Limestone	Marl	No. 2 Limestone
All townships	\$1.70	\$0.80	\$1.50

## POSEY COUNTY

Township	Limestone	Marl
All townships	\$2.30	\$1.10

## PULASKI COUNTY

Township	Lime- stone	Marl	Township	Lime- stone	Marl
Beaver	\$1.90	\$0.80	Monroe	\$2.20	\$0.80
Cass	2.40	.80	Rich Grove	2.40	.80
Franklin	2.30	.80	Salem	1.60	.80
Harrison	2.10	.80	Tippecanoe	2.20	.80
Indian Creek	1.90	.80	Van Buren	1.70	.80
Jefferson	1.90	.80	White Post	1.90	.80

## PUTNAM COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Clinton	\$1.50	Jackson	\$1.50	Russell	\$1.50
Cloverdale	1.40	Jefferson	1.40	Warren	1.30
Floyd	1.50	Madison	1.40	Washington	1.40
Franklin	1.50	Marion	1.40		
Greencastle	1.40	Monroe	1.40		

## RANDOLPH COUNTY

Township	Lime- stone	Marl	Township	Lime- stone	Marl
Franklin	\$1.70	\$0.80	Stoney Creek	\$1.90	\$0.80
Green	1.10	.60	Ward	2.00	1.00
Greensfork	2.20	1.00	Washington	2.10	1.00
Jackson	2.10	1.00	Wayne	2.00	1.00
Monroe	1.20	.60	West River	2.10	1.00
Nettle Creek	2.00	1.00	White River	2.00	1.00

## RIPLEY COUNTY

Township	Lime- stone	Marl	Township	Lime- stone	Marl
Adams	\$1.70	\$0.70	Johnson	\$1.50	\$0.70
Brown	1.60	.70	Laughery	1.50	.70
Center	1.40	.70	Otter Creek	1.50	.70
Delaware	1.50	.70	Shelby	1.60	.70
Franklin	1.60	.70	Washington	1.60	.70
Jackson	1.50	.70			

## RUSH COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Anderson	\$1.40	Orange	\$1.20	Rushville	\$1.50
Center	1.90	Posey	1.60	Union	1.90
Jackson	1.80	Richland	1.60	Walker	1.50
Noble	1.80	Ripley	1.90	Washington	2.00

## ST. JOSEPH COUNTY

Township	Limestone	Marl	No. 2 Limestone
All townships	\$2.10	\$1.10	\$1.90

## SCOTT COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Finley	\$1.30	Johnson	\$1.40	Vienna	\$1.30
Jennings	1.40	Lexington	1.40		

## SHELBY COUNTY

Addison	\$2.10	Liberty	\$1.70	Sugar Creek	\$2.10
Brandywine	2.10	Marion	2.10	Union	1.90
Hanover	2.10	Moral	2.10	Van Buren	2.10
Hendricks	2.10	Noble	1.50	Washington	1.40
Jackson	1.70	Shelby	1.50		

## SPENCER COUNTY

Carter	\$2.00	Hammond	\$2.00	Jackson	\$2.30
Clay	2.10	Harrison	2.10	Luce	2.20
Grass	2.20	Huff	2.00	Ohio	2.10

## STARKE COUNTY

Township	Limestone	Marl	No. 2 Limestone
All townships	\$2.10	\$1.00	\$1.90

## STEUBEN COUNTY

Township	Limestone	Marl	Township	Limestone	Marl
Clear Lake	\$2.30	\$1.00	Pleasant	\$2.30	\$0.90
Fremont	2.30	.90	Richland	2.30	.90
Jackson	2.30	.90	Salem	2.30	.90
Jamestown	2.30	.90	Scott	2.30	1.00
Millgrove	2.30	.90	Steuben	2.30	.90
Otsego	2.30	1.00	York	2.30	1.00

## SULLIVAN COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Cass	\$2.10	Gill	\$2.30	Jackson	\$2.30
Curry	2.30	Hadden	2.30	Jefferson	2.30
Fairbanks	2.30	Hamilton	2.10	Turman	2.30

## SWITZERLAND COUNTY

Township	Limestone
All townships	\$2.00

## TIPPECANOE COUNTY

Township	Limestone	Marl	Township	Limestone	Marl
Fairfield	\$2.10	\$1.00	Tippecanoe	\$2.10	\$ 1.00
Jackson	2.10	1.00	Union	2.20	1.00
Lauramie	2.00	1.00	Wabash	2.10	1.00
Perry	2.10	1.00	Washington	1.90	1.00
Randolph	2.20	1.00	Wayne	2.20	1.00
Sheffield	2.10	1.00	Wea	2.10	1.00
Shelby	2.30	1.00			

## TIPTON COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Cicero	\$2.00	Liberty	\$1.90	Prairie	\$2.00
Jefferson	2.10	Madison	1.70	Wildcat	1.70



## UNION COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Brownsville.....	\$2.20	Harmony.....	\$2.20	Liberty.....	\$2.00
Center.....	2.00	Harrison.....	1.70	Union.....	1.80

## VANDERBURGH COUNTY

Township	Limestone	Marl
All townships.....	\$2.30	\$1.10

## VERMILLION COUNTY

Township	Limestone	Marl
All townships.....	\$2.20	\$1.00

## VIGO COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Fayette.....	\$1.90	Lost Creek.....	\$1.60	Prairie Creek.....	\$1.90
Harrison.....	1.70	Nevins.....	1.70	Prairieton.....	1.80
Honey Creek.....	1.80	Otter Creek.....	1.70	Riley.....	1.70
Linton.....	1.80	Pierson.....	1.70	Sugar Creek.....	1.90

## WABASH COUNTY

Township	Limestone	Marl	Township	Limestone	Marl
Chester.....	\$1.60	\$0.80	Paw Paw.....	\$1.70	\$0.80
Lagro.....	1.50	.80	Pleasant.....	1.80	.80
Liberty.....	1.70	.80	Waltz.....	1.80	.80
Noble.....	1.70	.80			

## WARREN COUNTY

Township	Limestone	Marl	Township	Limestone	Marl
Adams.....	\$2.20	\$1.10	Pike.....	\$2.20	\$1.10
Jordan.....	2.20	1.10	Pine.....	2.20	1.10
Kent.....	2.10	1.10	Prairie.....	2.20	1.10
Liberty.....	2.20	1.10	Steuben.....	2.20	1.10
Medina.....	2.20	1.10	Warren.....	2.20	1.10
Mound.....	2.10	1.10	Washington.....	2.20	1.10

## WARRICK COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Anderson.....	\$2.10	Greer.....	\$2.20	Ohio.....	\$2.10
Boon.....	2.10	Hart.....	2.20	Pigeon.....	2.20
Campbell.....	2.10	Lane-Owen.....	2.10	Skelton.....	2.20

## WASHINGTON COUNTY

Township	Limestone	Marl	Township	Limestone	Marl
Brown.....	\$1.50	\$0.70	Monroe.....	\$1.70	\$0.70
Franklin.....	1.50	.70	Pierce.....	1.60	.70
Gibson.....	1.60	.70	Polk.....	1.60	.70
Howard.....	1.40	.70	Posey.....	1.40	.70
Jackson.....	1.60	.70	Vernon.....	1.40	.70
Jefferson.....	1.90	.70	Washington.....	1.40	.70
Madison.....	1.30	.70			

## WAYNE COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Abington.....	\$2.10	\$1.10	Jackson.....	\$2.20	\$1.10
Boston.....	2.10	1.10	Jefferson.....	2.20	1.10
Center.....	1.90	1.10	New Garden.....	2.10	1.10
Clay.....	2.10	1.10	Perry.....	2.30	1.10
Dalton.....	2.30	1.10	Washington.....	2.20	1.10
Franklin.....	2.10	1.10	Wayne.....	1.90	1.10
Green.....	2.20	1.10	Webster.....	2.00	1.10
Harrison.....	2.20	1.10			

## WELLS COUNTY

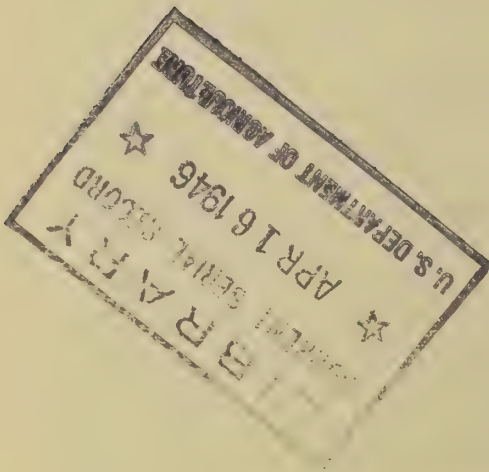
Township	Limestone	Township	Limestone	Township	Limestone
Chester.....	\$1.20	Jefferson.....	\$1.30	Nottingham.....	\$1.30
Harrison.....	1.20	Lancaster.....	1.20	Rock Creek.....	1.10
Jackson.....	1.40	Liberty.....	1.20	Union.....	1.20

## WHITE COUNTY

Big Creek.....	\$1.60	Liberty.....	\$1.70	Princeton.....	\$1.70
Cass.....	1.70	Lincoln.....	1.50	Round Grove.....	2.00
Honey Creek.....	1.50	Monon.....	1.30	Union.....	1.70
Jackson.....	1.50	Prairie.....	1.60	West Point.....	1.60

## WHITLEY COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Cleveland.....	\$1.50	\$0.80	Smith.....	\$1.70	\$0.80
Columbia.....	1.50	.80	Thorn Creek.....	1.70	.80
Etna-Troy.....	1.70	.80	Union.....	1.50	.80
Jefferson.....	1.30	.70	Washington.....	1.30	.70
Richland.....	1.60	.80			



UNITED STATES DEPARTMENT OF AGRICULTURE

PRODUCTION AND MARKETING ADMINISTRATION

FIELD SERVICE BRANCH

Washington, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

**IOWA COMMITTEEMAN'S PRACTICE HANDBOOK**

The 1946 Farm Program is designed to assist the farmers of Iowa to the fullest possible extent in protecting their soils against damage from erosion and loss of fertility.

The county committee will designate those practices which will be approved for payment in the county in order that the available funds will be used most effectively to bring about increased conservation. Written approval by the county committee must be obtained for each practice to be performed on any individual's farm, prior to the carrying out of such practice except that practices performed before April 1, 1946, may be approved retroactively by the county committee.

**A. FUNDS AVAILABLE FOR CONSERVATION PRACTICES ON INDIVIDUAL FARMS**

The county and community committeemen will determine for each farm, on the basis of the conservation needs and farmer's intentions, maximum payments for each practice approved for the farm. The sum of the maximum payments approved cannot exceed the county limits approved for this purpose by the State Committee. Official notice of such approval will be forwarded to the operator and other parties interested in the operation of the farm.

**B. CONSERVATION PRACTICES**

The practices available for 1946 are those which are most needed in order to conserve and improve soil fertility, improve pasture land, prevent wind and water erosion, and promote conservation and better utilization of water. Assistance will be available for carrying out the following practices during the program year January 1, 1946, through December 31, 1946. To qualify for payment, each practice must be carried out in accordance with the specifications for that practice and be in keeping with good farming practices for the locality.

Except as stated below, the total extent of any practice performed shall be reduced for purposes of payment by the percentage of the total cost of the practice which the county committee determines was furnished by a State or Federal agency. The extent of any practice shall not be reduced because a portion of the cost is represented by materials or services furnished by the F. S. B., or equipment furnished by S. C. S., or materials or services furnished by an agency of a State or political subdivision thereof to another agency or political subdi-



vision of the same State, or trees purchased from a Clark-McNary Cooperative State Nursery.

(1) **Standard terraces.**—Construction of standard terraces with a settled minimum ridge cross-section of at least 10 square feet on slopes of not more than 10 percent. Proper outlets must be provided. The terraces and outlets must conform to the minimum specifications required by the State committee—**\$1.50 per 100 linear feet.**

(2) **Contouring intertilled crops.**—Contour farming of intertilled crops provided the crop stubble is left standing or a good stand of a winter cover crop is obtained. No deviation in excess of 3 feet in 100 feet will be permitted. If there is danger of erosion in waterways, such waterways must be permanently established in sod and buffer strips must be established if necessary. Contour lines must be laid out with an approved instrument. No credit will be given for this practice for any acreage qualifying under Practice (4), Contour Stripcropping—**\$1.50 per acre.**

(3) **Contour farming of drilled or close-sown crops.**—Contour seeding of small grain crops, sorghums, millet, or soybeans. All operations prior to and in connection with the seeding must be on the contour. If there is danger of erosion in waterways, such waterways must be permanently established in sod. No deviation in excess of 3 feet in 100 feet will be permitted. Contour lines must be laid out with an approved instrument. No credit will be given for this practice for any acreage qualifying under Practice (4), Contour Stripcropping—**\$0.50 per acre.**

(4) **Contour stripcropping.**—Growing alternate strips of intertilled crops with sown, close-drilled, or sod crops, on the contour, provided: (1) the strips are approximately the same width; (2) the strips are not less than 3 rods nor more than 10 rods in width; (3) the crop stubble is left standing or a good stand of a winter cover crop is obtained; and (4) contour lines are laid out with an approved instrument. When it is necessary because of crop rotations, to have two adjacent strips of sown, close-drilled, or sod crops, credit may be given for the entire field—**\$1.50 per acre.**

(5) **Establishing sod waterways.**—Establishing a permanent sod waterway on any cropland where a permanent vegetative cover is necessary in a waterway channel or terrace outlet, or in cultivated orchards. The channel of the waterway must be sufficiently wide to carry the run-off from the drainage area and must be at least 1 rod wide at the narrowest point. The channel must contain perennial grasses and a good vegetative growth must be obtained—**\$0.75 per 1000 square feet.**

(6) **Construction of open farm drainage ditches.**—Construction or enlargement of open farm drainage ditches (except ditches constructed or maintained by a drainage district), including lateral and lead ditches for which proper outlets are provided, and adequate provision is made for the entrance of water into and out of the ditches. No credit will be given for material moved in cleaning the ditch.—**\$0.08 per cubic yard, but not in excess of \$8.00 per 100 linear feet.**

(7) **Excavation of ditches for tile drainage.**—Excavation of ditches for the installation of tile drains, provided the size of tile, outlets, and gradient meet the specifications for standard drainage as required by the State Committee. No credit will be given if the

tile lines are used for any purpose other than the draining of agricultural land or if less than 75 percent of the area to be drained is cropland.—**\$0.40 per rod.**

(8) **Diversion terraces.**—Construction of diversion terraces with a minimum settled ridge cross-section of at least 10 square feet above the original ground level. Proper outlets must be provided. The diversion terrace and outlet should be located and constructed in accordance with designs prepared locally by a qualified engineer—**\$0.08 per cubic yard, but not in excess of \$8.00 per 100 linear feet.**

(9) **Dams and reservoirs for livestock water.**—Construction of concrete, masonry, or earthen dams or ponds for providing water for livestock. The dam or pond must be constructed to provide at least 6 feet of water at the deepest point and must have a drainage area of not less than 3 acres nor more than 10 acres if a vegetative side spillway is used. The watershed must be in a sod crop or, if cultivated, must be protected by suitable conservation practices. Drainage from a barnyard must not be permitted to enter the pond. The dam and pond must be fenced to exclude stock and the water must be piped out to a tank. Dam sites must be located on soils which are water retentive to prevent excessive seepage. Protected side spillways of sufficient size to discharge the excess water must be provided. The channel from the spillway must be extended far enough to carry the surplus water away from the fill and onto a well-sodded channel or slope leading to a natural waterway. The lap of the settled fill must be 3 feet higher than the bottom of the side spillway for dams of 10 feet or less in height, and 4 feet higher for dams over 10 feet in height.

Earthen dams must be constructed with minimum slopes of 3 to 1 on the upstream side and 2 to 1 on the downstream side. There must be 1 foot of crown width for each foot in height of fill up to 10 feet. The pond site must be cleared of vegetation, trash, and debris before the fill is placed. Where porous material or silt is found on the site, a core trench must be constructed under the centerline of the fill. The core trench must be at least 3 feet wide and must extend through the porous layer into clay and must be backfilled with well compacted clay. Earth must be placed in the fill in layers of 6 to 12 inches which are well compacted with heavy equipment as each layer is placed. The fill material must not contain appreciable concentrations of vegetation, large rocks, frozen soils, or other foreign substances and must be moist enough to secure adequate compaction.

(a) For earth or other material moved—**\$0.12 per cubic yard.**

(b) For concrete—**\$9.00 per cubic yard.**

(c) For rubble masonry—**\$6.00 per cubic yard.**

(10) **Dams for erosion control.**—Construction of earthen, concrete, or masonry dams for the control of erosion of farmland. The county committee must specify for each project the minimum specifications which must be met to provide adequate protection against the destruction of the dam by excessive run-off and sufficient retardation of flood waters to prevent erosion below the dam.

(a) For earth or other material moved—**\$0.10 per cubic yard.**

(b) For concrete—**\$9.00 per cubic yard.**

(c) For rubble masonry—**\$6.00 per cubic yard.**

(11) **Reseeding noncrop open pasture.**—Reseeding and improving noncrop open pasture by carrying out all of the following: (1)

applying the necessary amounts of lime and fertilizer as shown by soil tests; (2) preparing a satisfactory seedbed by plowing, or disking or springtoothing where the land has already been plowed or where a perennial grass stand is already present; (3) seeding one of the mixtures listed below; and (4) delaying grazing until a good stand has been established.

(a) 5 pounds of sweet clover, 3 pounds of red clover, 2 pounds of alsike clover, 8 pounds of brome-grass, or 4 pounds of timothy and 4 pounds of Kentucky bluegrass. (For use on plowed ground or where a perennial grass stand is not present)—**\$3.00 per acre.**

(b) 8 pounds of alfalfa, 8 pounds of brome-grass or 4 pounds of timothy and 4 pounds of Kentucky bluegrass. (For use on plowed ground or where a perennial grass stand is not present)—**\$3.75 per acre.**

(c) 5 pounds of sweet clover, 3 pounds of red clover, and 2 pounds of alsike. (For use where there is a good stand of perennial grasses)—**\$1.75 per acre.**

(d) 5 pounds of alfalfa, 3 pounds of red clover, and 2 pounds of sweet clover. (For use where there is a good stand of perennial grasses)—**\$2.50 per acre.**

(e) For preparation of the seedbed—**\$0.75 per acre.**

(12) **Establishment of permanent pasture.**—Establishment of permanent pasture on any cropland or noncrop open pasture, by carrying out all of the following: (1) Applying the necessary amounts of limestone and fertilizer as shown by soil tests; (2) disking, springtoothing, or plowing sufficiently to prepare a good seedbed; (3) making a full seeding of one of the mixtures listed below; (4) delaying grazing until a good stand has been established, controlling grazing during the remainder of the pasture season, and removing the stock early enough in the fall to permit a good growth of the pasture before winter; and (5) mowing weeds, if necessary, a sufficient number of times to prevent seed formation and to control growth. Approval must not be given unless the county committee determines that the land will become bonafide permanent pasture.

(a) 6 pounds of red clover, 2 pounds of alsike, 4 pounds of timothy, 4 pounds of Kentucky bluegrass, and 3 pounds of alfalfa—**\$4.00 per acre.**

(b) 4 pounds of sweet clover, 2 pounds of red clover, 1 pound of alsike, 3 pounds of timothy, 7 pounds of brome-grass, and 2 pounds of alfalfa—**\$3.50 per acre.**

(c) 5 pounds of alfalfa, 3 pounds of red clover, and 10 pounds of brome-grass—**\$4.75 per acre.**

(d) 5 pounds of red clover, 2 pounds of alsike, 3 pounds of Kentucky bluegrass, and 6 pounds of brome-grass (on acid soils)—**\$4.00 per acre.**

(e) 6 pounds of alfalfa and 10 pounds of grome-grass—**\$4.00 per acre.**

(f) 3 pounds of alfalfa, 3 pounds of red clover, 4 pounds of timothy, and 6 pounds of brome-grass—**\$3.50 per acre.**

(g) 8 pounds of Reeds canary grass (wet soils)—**\$3.00 per acre.**

(13) **Tree planting.**—Prior approval of the site and the variety of the tree to be planted must be obtained from the county committee. The plantings must be made in accordance with good tree culture and the new planting must be protected from fire and grazing. The following varieties of trees may be approved for payment, provided they are adapted to the particular soil type, climatic conditions, moisture conditions and site:

(a) For forest purposes: White ash, black cherry, cottonwood, red elm, hackberry, shagbark hickory, hard maple, red maple, black oak, red oak, white oak, black walnut, eastern white pine, jack pine, Virginia pine, red pine, and eastern red cedar—**\$1.00 per 100 trees, but not to exceed \$7.50 per acre.**



(b) For gully control: Green ash, cottonwood, red elm, hackberry, black locust, red maple, Osage orange, eastern white pine, jack pine, red pine, Virginia pine, and eastern red cedar—\$1.00 per 100 trees but not to exceed \$7.50 per acre.

(c) For windbreaks and shelterbelts: Green ash, hardy catalpa, cottonwood, red elm, hackberry, soft maple, Osage orange, black walnut, eastern white pine, jack pine, red pine, western yellow pine, eastern red cedar, white cedar, Douglas fir, Norway spruce, blue spruce, and blackhills spruce—\$2.00 per 100 trees.

(14) **Weed control on cropland.**—With prior approval of the county committee, eradication or effective control of seriously infested plots of the following perennial noxious weeds: Bindweed, creeping jenny, Canada thistle, perennial pepper grass, leafy spurge, horse nettle, Russian knapweed, and perennial sow thistle. Payment for this practice may be approved only on farms where approved weed control measures are being carried out on all adjacent infested farms and contiguous land, where the infestation is limited to a single farm, or where the county committee determines there is no likelihood of reinfestation. No crop may be taken from the land but the weeds may be cut and removed before tillage is begun.

(a) By use of sodium chlorate or other chemicals approved by the State Committee—\$0.06 per pound.

(b) By continuous clean tillage—\$10.00 per acre.

(15) **Liming materials.**—(Credit rates are contained in NCR-46-1, Supplement 1.) Application of the following materials:

(a) One ton of agricultural ground limestone containing at least 80 percent calcium carbonate equivalent and ground sufficiently fine so that 80 percent, including all of the finer particles obtained in the grinding process, will pass through an 8 mesh sieve and 20 percent through a 100 mesh sieve. The moisture content at the time of shipment must not exceed 8 percent. The calcium carbonate equivalent and the percent passing through a U. S. Standard No. 8 sieve must be at least 80 and one or both must be greater than 80 so that the multiplication of the percent of calcium carbonate equivalent by the percent of material passing through a U. S. Standard No. 8 sieve will be equal to or in excess of 0.72.

(b) One ton of calcium carbide refuse lime containing at least 85 percent calcium carbonate and testing not more than 35 percent moisture at the shipping point.

(c) One cubic yard of water-softening process lime containing at least 70 percent calcium carbonate equivalent.

(d) One cubic yard of calcareous clay containing not less than 30 percent calcium carbonate equivalent.

(e) One cubic yard of marl containing not less than 70 percent calcium carbonate equivalent.

(f) One ton of button dust containing not less than 80 percent calcium carbonate equivalent.

(g) One ton of hydrated lime.

A correspondingly greater amount of material must be required if the material does not meet the specifications. No payment will be approved by the county committee unless applicant can show need for lime.

(16) **Fertilizers.**—Application of superphosphate, defluorinated phosphate rock, or potash to: (1) **pastures**; (2) **new seedings** of biennial or perennial legumes, or perennial grasses, with or without a nurse crop; (3) **old stands** of biennial and perennial legumes or perennial grasses, provided the acreage on which such applications are made is not cultivated for, devoted to, or plowed for any other crop prior to January 1, 1947; and (4) to **green manure crops** in orchards.

(a) Superphosphate or defluorinated phosphate rock—\$4.00 per 100 pounds of available  $P_2O_5$ .

(b) Potash—\$2.50 per 100 pounds of available  $K_2O$ .

(c) 100 lbs. of 0-9-27----	\$1. 00	(l) 100 lbs. of 0-20-20----	\$1. 30
(d) 100 lbs. of 0-10-20----	0. 90	(m) 100 lbs. of 2-12-6----	0. 60
(e) 100 lbs. of 0-12-12----	0. 80	(n) 100 lbs. of 3-9-18----	0. 80
(f) 100 lbs. of 0-14-7----	0. 70	(o) 100 lbs. of 3-12-12----	0. 80
(g) 100 lbs. of 0-14-14----	0. 90	(p) 100 lbs. of 3-18-9----	0. 90
(h) 100 lbs. of 0-18-0----	0. 70	(q) 100 lbs. of 4-10-6----	0. 50
(i) 100 lbs. of 0-19-0----	0. 80	(r) 100 lbs. of 4-12-4----	0. 60
(j) 100 lbs. of 0-20-0----	0. 80	(s) 100 lbs. of 4-16-0----	0. 60
(k) 100 lbs. of 0-20-10----	1. 00	(t) 100 lbs. of 10-6-4----	0. 30

(17) **Fertilizers.**—Application of rock phosphate containing at least 30 percent phosphoric acid, or colloidal phosphate testing at least 18 percent phosphoric acid, to any crop.

(a) Rock phosphate—\$0.45 per 100 pounds.

(b) Colloidal phosphate—\$0.30 per 100 pounds.

(18) **Mulching materials.**—Application of straw and hay in commercial orchards, in vineyards, on commercial vegetable land, on potato land, on strawberries or other small fruit.—\$5.00 per ton.

(19) **Green manure crops.**—Disking or plowing under a good stand and a good growth of the following crops. If the land is subject to erosion and the green manure is turned under in the fall, the land must be protected by a winter cover crop.—\$1.50 per acre.

(a) Alsike or red clover turned under in the fall of 1946.

(b) Sweet Clover.

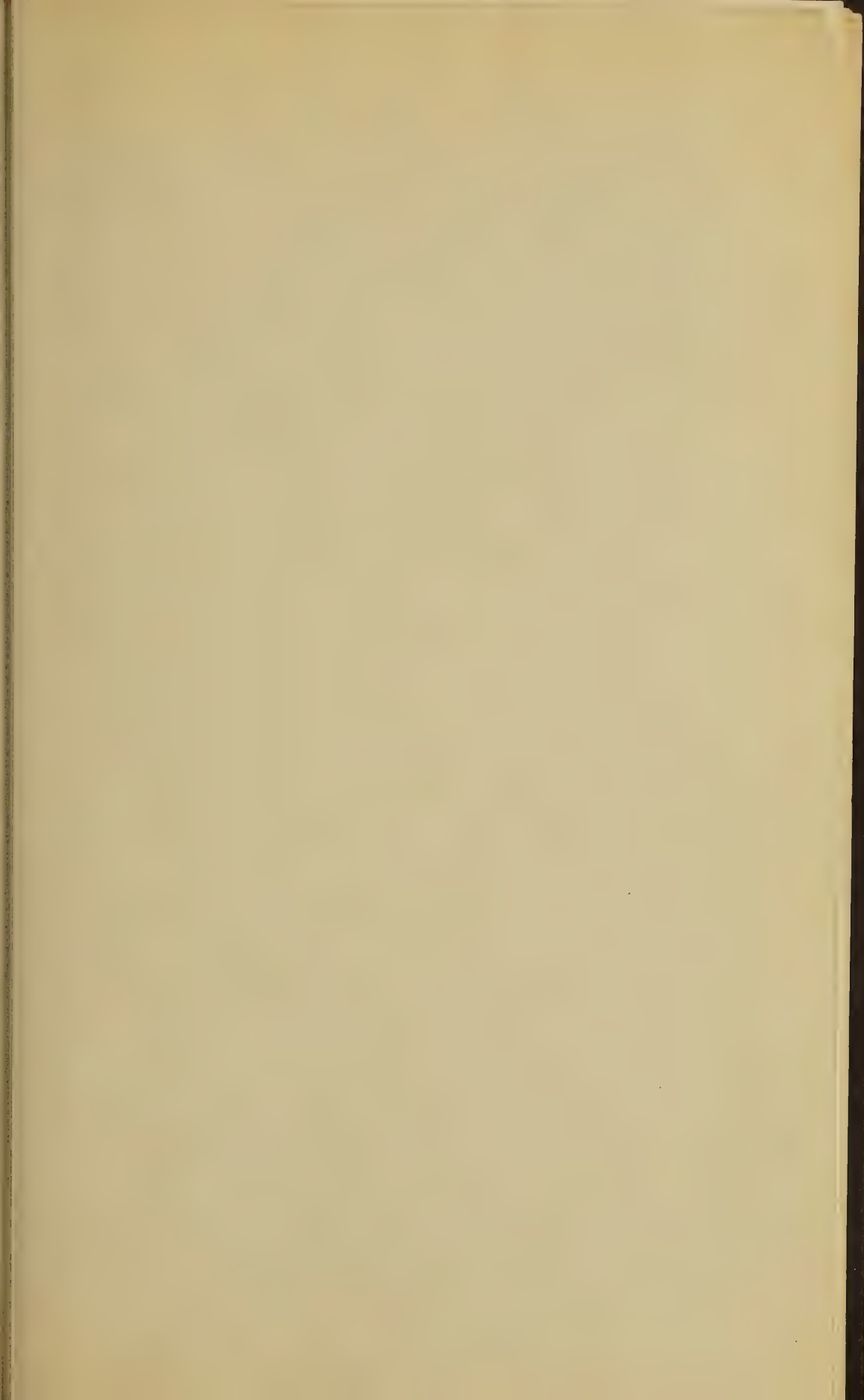
(c) 1945 fall seedings of winter rye plowed in spring of 1946.

(d) Oats, barley, wheat, rye, soybeans in orchards and on vegetable land.

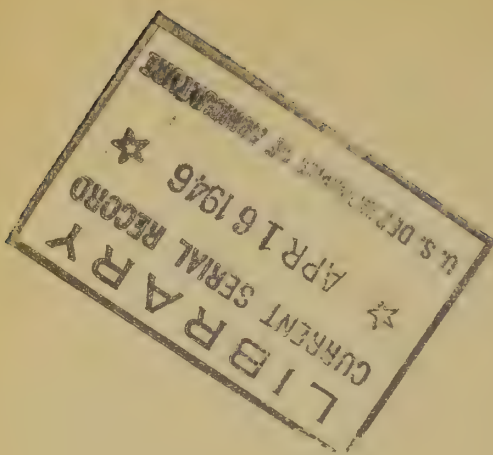
(20) **Harvesting hayseed.**—Harvesting for seed an acreage of alfalfa, red clover, alsike clover. Credit will not be given for more than 25 acres per farm.—\$3.50 per acre.

### C. POOLING AGREEMENTS

Producers in any local area may agree in writing, with the approval of the County and State Committees, to cooperatively perform the following practices on one or more of the farms operated by such producers, provided all of their farms are benefited by the performance of such practices: Practice (6), Construction of Open Farm Drainage Ditches, Practice (7), Excavation of Ditches for Tile Drainage, or Practice (8), Diversion Terraces. Instructions for carrying out a pooling agreement are contained in NCR-46-2.







UNITED STATES DEPARTMENT OF AGRICULTURE  
 . PRODUCTION AND MARKETING ADMINISTRATION  
 FIELD SERVICE BRANCH—WASHINGTON 25, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

## SUPPLEMENT 1 TO IOWA COMMITTEEMAN'S PRACTICE HANDBOOK

## 1946 CREDIT RATES FOR LIMING MATERIALS—IOWA

Materials for which the credit rates are the same throughout the State

<i>Type of material</i>	<i>Credit rate</i>
Calcium carbide refuse lime.....	\$1.40 per ton
Water-softening process lime.....	.70 per cu. yd.
Calcareous clay .....	.50 per cu. yd.
Marl .....	.80 per cu. yd.
Button dust .....	1.90 per ton
Hydrated lime .....	4.00 per ton

CREDIT RATES PER TON FOR GROUND LIMESTONE BY COUNTY  
 AND TOWNSHIP

ADAIR COUNTY		ADAIR COUNTY—Con.		ADAIR COUNTY—Con.	
<i>Township</i>	<i>Limestone</i>	<i>Township</i>	<i>Limestone</i>	<i>Township</i>	<i>Limestone</i>
Eureka.....	\$1.80	Lincoln.....	\$1.60	Walnut.....	\$1.70
Grand River.....	1.70	Orient.....	1.90	Washington.....	2.10
Grove.....	1.40	Prussia.....	1.60	ADAMS COUNTY	
Harrison.....	1.50	Richland.....	2.00	All townships.....	\$2.20
Jackson.....	2.00	Summerset.....	1.80	ALLAMAKEE COUNTY	
Jefferson.....	1.50	Summit.....	1.90	All townships.....	\$1.40
Lee.....	1.60	Union.....	2.00		

## APPANOOSE COUNTY

<i>Township</i>	<i>Lime- stone</i>	<i>No. 2 Lime- stone</i>	<i>Township</i>	<i>Lime- stone</i>	<i>No. 2 Lime- stone</i>
Bellair.....	\$1.70	\$1.40	Sharon.....	\$1.70	\$1.40
Caldwell.....	1.80	1.50	Taylor.....	1.80	1.50
Chariton.....	1.80	1.50	Udell.....	1.80	1.50
Douglas.....	1.70	1.40	Union.....	1.90	1.60
Franklin.....	1.90	1.60	Vermillion.....	1.60	1.30
Independence.....	1.50	1.20	Walnut.....	1.70	1.40
Johns.....	1.70	1.40	Washington.....	1.80	1.50
Lincoln.....	1.80	1.50	Wells.....	1.90	1.60
Pleasant.....	1.80	1.50			

AUDUBON COUNTY		BREMER COUNTY		CASS COUNTY—Con.	
Township	Limestone	Township	Limestone	Township	Limestone
All townships.....	\$2.20	Dayton.....	\$1.40	Cass.....	\$2.00
BENTON COUNTY		Douglas.....	1.40	Edna.....	2.30
Benton.....	\$1.60	Franklin.....	1.30	Franklin.....	2.00
Big Grove.....	1.60	Frederika.....	1.50	Grant.....	1.90
Bruce.....	1.60	Fremont.....	1.40	Grove.....	2.20
Canton.....	1.70	Jackson.....	1.20	Lincoln.....	1.90
Cedar.....	1.60	Jefferson.....	1.40	Massena.....	2.00
Eden.....	1.60	Lafayette.....	1.20	Noble.....	2.00
Eldorado.....	1.90	LeRoy.....	1.50	Pleasant.....	1.90
Florence.....	1.70	Maxfield.....	1.50	Pymosa.....	2.30
Fremont.....	1.70	Polk.....	1.20	Union.....	2.20
Harrison.....	1.60	Sumner.....	1.60	Victoria.....	2.20
Homer.....	1.60	Warren.....	1.20	Washington.....	2.30
Iowa.....	2.00	Washington.....	1.20	CEDAR COUNTY	
Jackson.....	1.50	BUCHANAN COUNTY		Cass.....	\$1.50
Kane.....	1.80	Buffalo.....	\$1.70	Center.....	1.40
LeRoy.....	1.90	Byron.....	1.40	Dayton.....	1.40
Monroe.....	1.60	Cono.....	1.30	Fairfield.....	1.50
Polk.....	1.70	Fairbank.....	1.80	Farmington.....	1.50
St. Clair.....	1.90	Fremont.....	1.40	Fremont.....	1.50
Taylor.....	1.50	Hazelton.....	1.60	Gower.....	1.40
Union.....	1.90	Homer.....	1.30	Inland.....	1.60
BLACK HAWK COUNTY		Jefferson.....	1.80	Iowa.....	1.60
Barclay.....	\$1.60	Liberty.....	1.40	Linn.....	1.60
Bennington.....	1.40	Madison.....	1.30	Massillon.....	1.50
Big Creek.....	1.30	Middlefield.....	1.70	Pioneer.....	1.60
Black Hawk.....	1.50	Newton.....	1.70	Red Oak.....	1.50
Cedar.....	1.20	Perry.....	1.40	Rochester.....	1.50
Cedar Falls.....	1.00	Sumner.....	1.40	Springdale.....	1.60
Eagle.....	1.20	Washington.....	1.40	Springfield.....	1.40
East Waterloo.....	1.30	Westburg.....	1.40	Sugar Creek.....	1.40
Fox.....	1.30	BUENA VISTA COUNTY		CERRO GORDO COUNTY	
Lester.....	1.50	All townships.....	\$2.30	Bath.....	\$1.40
Lincoln.....	1.50	BUTLER COUNTY		Clear Lake.....	1.70
Mt. Vernon.....	1.30	All townships.....	\$1.40	Dougherty.....	1.60
Orange.....	1.20	CALHOUN COUNTY		Falls.....	1.60
Poyner.....	1.20	Butler.....	\$2.10	Geneseo.....	1.50
Spring Creek.....	1.40	Calhoun.....	2.40	Grant.....	1.60
Union.....	.80	Cedar.....	2.10	Grimes.....	1.90
Washington.....	.80	Center.....	2.10	Lake.....	1.60
West Waterloo.....	1.40	Elm Grove.....	2.40	Lime Creek.....	1.50
BOONE COUNTY		Garfield.....	2.30	Lincoln.....	1.60
Amaqua.....	\$2.30	Greenfield.....	2.00	Mason.....	1.40
Beaver.....	2.30	Jackson.....	2.40	Mount Vernon.....	1.60
Cass.....	2.20	Lake Creek.....	2.30	Owen.....	1.50
Colfax.....	1.80	Lincoln.....	1.90	Pleasant Valley.....	1.60
Des Moines.....	1.90	Logan.....	2.20	Portland.....	1.50
Dodge.....	2.10	Reading.....	2.20	Union.....	1.80
Douglas.....	2.10	Sherman.....	2.00	CHEROKEE COUNTY	
Garden.....	1.90	Twin Lakes.....	2.20	All townships.....	\$2.40
Grant.....	2.40	Union.....	2.30	CHICKASAW COUNTY	
Harrison.....	1.90	Williams.....	2.20	Bradford.....	\$1.30
Jackson.....	1.70	CARROLL COUNTY		Chickasaw.....	1.30
Marcy.....	2.20	All townships.....	\$2.30	Dayton.....	1.40
Peoples.....	2.30	CASS COUNTY		Deerfield.....	1.70
Pilot Mound.....	2.30	Bear Grove.....	\$2.20	Dresden.....	1.70
Union.....	2.40	Benton.....	2.00	Fredericksburg.....	1.60
Worth.....	1.90	Brighton.....	2.30	Jacksonville.....	1.60
Yell.....	2.10			New Hampton.....	1.70



CHICKASAW  
COUNTY—Continued

Township	Limestone
Richland	\$1.40
Stapleton	1.40
Utica	1.40
Washington	1.70

## CLARKE COUNTY

Doyle	\$1.90
Franklin	1.90
Fremont	1.70
Green Bay	1.80
Jackson	1.80
Knox	1.70
Liberty	1.90
Madison	1.80
Osceola	1.50
Troy	1.70
Ward	1.70
Washington	1.70

## CLAY COUNTY

All townships	\$2.40
---------------	--------

## CLAYTON COUNTY

Boardman	\$1.30
Buena Vista	1.50
Cass	1.30
Clayton	1.40
Cox Creek	1.30
Elk	1.40
Farmersburg	1.30

CLAYTON COUNTY—  
Continued

Township	Limestone
Garnavillo	\$1.30
Giard	1.30
Grand Meadow	1.30
Highland	1.30
Jefferson	1.40
Lodomillo	1.30
Mallory	1.30
Marion	1.30
Mendon	1.40
Millville	1.40
Monona	1.30
Read	1.30
Sperry	1.30
Volga	1.30
Wagner	1.30

## CLINTON COUNTY

Bloomfield	\$1.60
Brookfield	1.60
Camanche	1.40
Center	1.70
Deep Creek	1.60
De Witt	1.50
Eden	1.70
Elk River	1.40
Grant	1.60
Hampshire	1.40
Liberty	1.60
Lincoln	1.70

CLINTON COUNTY—  
Continued

Township	Limestone
Olive	\$1.60
Orange	1.60
Sharon	1.60
Spring Rock	1.60
Spring Valley	1.40
Washington	1.60
Waterford	1.60
Welton	1.60

## CRAWFORD COUNTY

All townships	\$2.40
---------------	--------

## DALLAS COUNTY

Adams	\$1.50
Adel	1.90
Beaver	2.10
Boone	1.90
Colfax	1.80
Dallas	2.20
Des Moines	2.30
Grant	2.10
Lincoln	2.10
Linn	2.00
Spring Valley	2.10
Sugar Grove	2.10
Union	1.70
Van Meter	1.70
Walnut	2.10
Washington	2.00

## DAVIS COUNTY

Township	Lime- stone	No. 2 Lime- stone	Township	Lime- stone	No. 2 Lime- stone
Cleveland	\$1.90	\$1.60	Prairie	\$1.80	\$1.50
Drakesville	2.10	1.80	Roscoe	1.90	1.60
Fabius	2.20	1.70	Salt Creek	1.70	1.40
Fox River	2.10	1.70	Soap Creek	2.10	1.70
Grove	2.00	1.60	Union	1.70	1.40
Lick Creek	1.90	1.60	West Grove	2.20	1.70
Marion	2.10	1.70	Wyacondah	2.10	1.80
Perry	1.90	1.60			

## DECATUR COUNTY

Township	Lime- stone	No. 2 Lime- stone	Township	Lime- stone	No. 2 Lime- stone
Bloomington	\$1.80	\$1.50	Grand River	\$1.80	\$1.50
Burrell	1.70	1.40	Hamilton	2.00	1.70
Center	1.90	1.60	High Point	2.00	1.70
Decatur	1.70	1.40	Long Creek	1.90	1.60
Eden	2.00	1.70	Morgan	2.30	2.00
Fayette	2.00	1.70	New Buda	1.90	1.60
Franklin	2.00	1.70	Richland	1.80	1.50
Garden Grove	2.20	1.90	Woodland	2.30	2.00

DELAWARE COUNTY	
Township	Limestone
All townships	\$1.40

DES MOINES COUNTY	
Augusta	\$1.60
Benton	1.70
Burlington-	
Concordia	1.60
Danville	1.90
Flint River	1.50
Franklin	1.60
Huron	2.10
Jackson	2.00
Pleasant Grove	1.90
Tama	1.50
Union	1.50
Washington	2.00
Yellow Springs	1.90

DICKINSON COUNTY	
All townships	\$2.40

DUBUQUE COUNTY	
Cascade	\$1.30
Center	1.40
Concord	1.50
Dodge	1.30
Dubuque	1.30
Iowa	1.40
Jefferson	1.40
Liberty	1.60
Mosalem	1.40
New Wine	1.50
Peru	1.40
Prairie Creek	1.40
Table Mound	1.30
Taylor	1.40
Vernon	1.50
Washington	1.50
Whitewater	1.30

EMMET COUNTY	
All townships	\$2.40

FAYETTE COUNTY	
Auburn	\$1.30
Banks	1.50
Bethel	1.50
Center	1.30
Clermont	1.70
Dover	1.40
Eden	1.30
Fairfield	1.40
Fremont	1.60
Harlan	1.40
Illyria	1.60
Jefferson	1.60
Orap	1.60
Pleasant Valley	1.60
Putnam	1.40
Scott	1.50
Smithfield	1.30
Union	1.60
Westfield	1.20
Windsor	1.60

FLOYD COUNTY	
Cedar	\$1.40
Floyd	1.30
Niles	1.40
Pleasant Grove	1.40
Riverton	1.60
Rockford	1.60
Rock Grove	1.50
Rudd	1.30
East St. Charles	1.50
West St. Charles	1.40
Scott	1.60
Ulster	1.50
Union	1.40

FRANKLIN COUNTY	
Geneva	\$1.50
Grant	1.30
Hamilton	1.60
Ingham	1.40
Lee	1.60
Marion	1.70
Morgan	1.70
Mott	1.60
Oakland	1.70
Osceola	1.30
Reeve	1.50
Richland	1.70
Ross	1.60
Scott	1.70
West Fork	1.60
Wisner	1.80

FREMONT COUNTY	
All townships	\$2.20

GREENE COUNTY	
All townships	\$2.20

GRUNDY COUNTY	
Beaver	\$1.40
Black Hawk	1.80
Clay	1.50
Colfax	1.50
Fairfield	1.70
Felix	1.30
German	1.30
Grant	1.80
Lincoln	1.60
Melrose	1.50
Palermo	1.60
Pleasant Valley	1.30
Shiloh	1.40
Washington	1.80

GUTHRIE COUNTY	
Baker	\$2.00
Bear Grove	2.20
Beaver	1.70
Cass	2.10
Dodge	2.20
Grant	2.00
Highland	2.30
Jackson	1.90
Orange	2.50

GUTHRIE COUNTY— Continued	
Township	Limestone
Penn-Stuart	\$1.70
Richland	2.30
Seeley	2.10
Thompson	1.90
Union	2.30
Valley	2.00
Victory	2.10

HAMILTON COUNTY	
Blairsburg	\$1.70
Cass	2.00
Clear Lake	2.00
Ellsworth	1.90
Freedom	2.10
Fremont	1.90
Hamilton	2.20
Independence	2.20
Liberty	1.90
Lincoln	2.00
Lyon	2.00
Marion	2.20
Rose Grove	1.70
Scott	2.00
Webster	2.20
Williams	1.50

HANCOCK COUNTY	
Amsterdam	\$2.10
Avery	1.80
Bingham	2.10
Boone	2.20
Britt	2.00
Concord	1.70
Crystal	1.90
Ell	1.80
Ellington	1.70
Erin	2.10
Garfield	1.90
Liberty	1.90
Madison	1.80
Magor	2.30
Orthel	2.10
Twin Lakes	2.00

HARDIN COUNTY	
Alden	\$1.40
Buckeye	1.60
Clay	1.50
Concord	1.90
Eldora	1.40
Ellis	1.40
Etna	1.30
Grant	1.70
Hardin	1.30
Jackson	1.50
Pleasant	1.60
Providence	1.50
Sherman	2.00
Tipton	1.60
Union	1.30

HARRISON COUNTY	
All townships	\$2.40

## HENRY COUNTY

Township	Limestone
Baltimore	\$1.60
Canaan	1.80
Center	1.50
Jackson	1.50
Jefferson	1.90
Marion	1.70
New London	1.50
Salem	1.80
Scott	1.90
Tippecanoe	1.80
Trenton	1.90
Wayne	1.90

## HOWARD COUNTY

Afton	\$1.40
Albion	1.30
Chester	1.30
Forest City	1.30
Howard	1.40
Howard Center	1.40
Jamestown	1.60
New Oregon	1.40
Oak Dale	1.60
Paris	1.40
Saratoga	1.40
Vernon Springs	1.30

## HUMBOLDT COUNTY

Avery	\$1.50
Beaver	2.00
Corinth	1.80
Delana	2.00
Grove	2.00
Humboldt	2.20
Lake	2.20
Norway	2.20
Rutland	1.80
Vernon	2.30
Wacousta	1.70
Weaver	1.60

## IDA COUNTY

All townships	\$2.40
---------------	--------

## IOWA COUNTY

Dayton	\$2.40
English	2.40
Fillmore	2.40
Greene	2.00
Hartford	2.30
Hilton	2.10
Honey Creek	2.30
Iowa	2.00
Lenox	1.80
Lincoln	2.40
Marengo	2.20
Pilot	2.40
Sumner	2.20
Troy	2.20
Washington	1.90
York	2.10

## JACKSON COUNTY

All townships	\$1.50
---------------	--------

## JASPER COUNTY

Township	Limestone
Buena Vista	\$1.70
Clear Creek	1.90
Des Moines	1.70
Elk Creek	1.60
Fairview	1.70
Hickory Grove	1.60
Independence	1.80
Kellogg	1.70
Lynn Grove	1.60
Malaka	1.80
Mariposa	1.60
Mound Prairie	1.80
Newton	1.90
Palo Alto	1.90
Poweshiek	1.90
Richland	1.60
Rock Creek	1.60
Sherman	1.90
Washington	1.90

## JEFFERSON COUNTY

Black Hawk	\$1.90
Buchanan	1.70
Cedar	1.60
Center	1.80
Des Moines	1.70
Liberty	1.60
Lockridge	1.80
Locust Grove	1.80
Penn	1.90
Polk	2.00
Round Prairie	1.50
Walnut	1.90

## JOHNSON COUNTY

Big Grove	\$1.50
Cedar	1.60
Clear Creek	1.20
East Lucas	1.20
Fremont	1.70
Graham	1.40
Hardin	1.50
Jefferson	1.50
Liberty	1.40
Lincoln	1.50
Madison	1.40
Monroe	1.60
Newport	1.30
Oxford	1.50
Penn	1.20
Pleasant Valley	1.40
Scott	1.30
Sharon	1.50
Union	1.30
Washington	1.60
West Lucas	1.20

## JONES COUNTY

Cass	\$1.50
Castle Grove	1.60
Clay	1.60
Fairview	1.40
Greenfield	1.50
Hale	1.60
Jackson	1.50

## JONES COUNTY—Con.

Township	Limestone
Lovell	\$1.60
Madison	1.70
Oxford	1.60
Richland	1.40
Rome	1.60
Scotch Grove	1.60
Washington	1.40
Wayne	1.50
Wyoming	1.70

## KEOKUK COUNTY

Adams	\$1.90
Benton	1.70
Clear Creek	1.90
East Lancaster	1.90
English River	1.90
Jackson	1.50
Lafayette	1.90
Liberty	1.90
Plank	1.90
Prairie	1.90
Richland	1.70
Sigourney	1.80
Steady Run	1.70
Van Buren	1.90
Warren	1.50
Washington	1.70
West Lancaster	1.70

## KOSSUTH COUNTY

Buffalo	\$2.20
Burt	2.30
Cresco	2.30
Eagle	2.50
Fenton	2.40
Garfield	2.00
German	2.20
Grant	2.50
Greenwood	2.30
Harrison	2.40
Hebron	2.30
Irvington	2.30
Ledyard	2.30
Lincoln	2.50
Lotts Creek	2.30
Luverne	2.30
Plum Creek	2.30
Portland	2.30
Prairie	2.30
Ramsey	2.30
Riverdale	2.20
Seneca	2.40
Sherman	2.30
Springfield	2.40
Swea	2.50
Union	2.40
Wesley	2.30
Whittemore	2.20

## LEE COUNTY

Cedar	\$1.70
Charleston	1.70
Denmark	1.80
Des Moines	2.00
Franklin	1.50



## LEE COUNTY—Con.

Township	Limestone
Green Bay.....	\$2.10
Harrison.....	1.60
Jackson.....	2.20
Jefferson.....	1.80
Marion.....	1.50
Montrose.....	2.00
Pleasant Ridge.....	1.60
Van Buren.....	1.80
Washington.....	1.80
West Point.....	1.60

## LINN COUNTY

Bertram.....	\$1.50
Boulder.....	1.50
Brown.....	1.50
Buffalo.....	1.50
Clinton.....	1.40
College.....	1.40
Fairfax.....	1.50
Fayette.....	1.50
Franklin.....	1.60
Grant.....	1.50
Jackson.....	1.50
Linn.....	1.60
Maine.....	1.50
Marion.....	1.50
Monroe.....	1.50
Otter Creek.....	1.50
Putnam.....	1.50
Spring Grove.....	1.40
Washington.....	1.50

## LOUISA COUNTY

Columbus City.....	\$1.60
Concord.....	1.70
Eliot.....	2.20
Elm Grove.....	1.60
Grandview.....	1.80
Jefferson.....	2.10
Marshall.....	1.80
Morning Sun.....	1.80
Oakland.....	1.80
Port Louisa.....	1.90
Union.....	1.60
Wapello.....	1.90

## LUCAS COUNTY

Benton.....	\$2.00
Cedar.....	2.00
English.....	2.20
Jackson.....	1.90
Liberty.....	2.20
Lincoln.....	2.10
Otter Creek.....	2.10
Pleasant.....	2.10
Union.....	2.10
Warren.....	2.10
Washington.....	1.80
Whitebreast.....	2.10

## LYON COUNTY

All townships.....	\$2.40
--------------------	--------

## MADISON COUNTY

Township	Limestone
Crawford.....	\$1.60
Douglas.....	1.80
Grand River.....	2.10
Jackson.....	1.70
Jefferson.....	1.60
Lee.....	1.80
Lincoln.....	1.70
Madison.....	1.40
Monroe.....	1.80
Ohio.....	1.80
Penn.....	1.60
Scott.....	1.60
South.....	1.70
Union.....	1.40
Walnut.....	1.90
Webster.....	1.90

## MAHASKA COUNTY

Adams.....	\$1.50
Black Oak.....	1.80
Cedar.....	1.90
East Des Moines.....	1.80
Garfield.....	1.70
Harrison.....	1.80
Jefferson.....	1.70
Lincoln.....	1.50
Madison.....	1.60
Monroe.....	1.70
Pleasant Grove.....	1.90
Prairie.....	1.70
Richland.....	1.90
Scott.....	1.60
Spring Creek.....	1.70
Union.....	1.70
West Des Moines.....	1.70
White Oak.....	1.90

## MARION COUNTY

Clay.....	\$1.30
Dallas.....	2.00
East Knoxville.....	1.50
Franklin.....	2.10
Indiana.....	1.60
Lake Prairie.....	1.40
Liberty.....	1.60
Perry.....	1.90
Pleasant Grove.....	1.90
Polk.....	1.60
Red Rock.....	1.70
Summit.....	1.50
Swan.....	1.90
Union.....	1.70
Washington.....	1.90
West Knoxville.....	1.70

## MARSHALL COUNTY

Bangor.....	\$1.40
Eden.....	1.80
Greencastle.....	1.40
Iowa.....	1.60
Jefferson.....	1.60
LeGrand.....	1.40
Liberty.....	1.60
Linn.....	1.40

## MARSHALL COUNTY—Continued

Township	Limestone
Liscomb.....	\$1.40
Logan.....	1.70
Marietta.....	1.60
Marion.....	1.40
Minerva.....	1.80
State Center.....	2.00
Taylor.....	1.40
Timber Creek.....	1.50
Vienna.....	1.40
Washington.....	1.60

## MILLS COUNTY

Anderson.....	\$1.60
Center.....	2.00
Deer Creek.....	2.00
Glenwood.....	2.20
Indian Creek.....	1.70
Ingraham.....	1.80
Lyons.....	2.20
Oak.....	2.00
Plattville.....	2.10
Rawles.....	2.10
Silver Creek.....	1.90
St. Marys.....	2.10
White Cloud.....	2.00

## MITCHELL COUNTY

Burr Oak.....	\$1.50
Cedar.....	1.70
Douglas.....	1.70
East Lincoln.....	1.70
Jenkins.....	1.80
Liberty.....	1.70
Mitchell.....	1.50
Newburg.....	1.70
Osage.....	1.40
Otranto.....	1.80
Rock.....	1.70
St. Ansgar.....	1.70
Stacyville.....	1.80
Union.....	1.70
Wayne.....	1.90
West Lincoln.....	1.40

## MONONA COUNTY

All townships.....	\$2.50
--------------------	--------

## MONROE COUNTY

Bluff Creek.....	\$1.90
Cedar.....	2.00
Franklin.....	1.80
Guilford.....	1.90
Jackson.....	1.60
Mantua.....	1.80
Monroe.....	2.00
Pleasant.....	1.70
Troy.....	1.90
Union.....	2.00
Urbana.....	1.90
Wayne.....	1.80

## MONTGOMERY COUNTY

Douglas.....	\$2.10
East.....	2.30

**MONTGOMERY  
COUNTY—Continued**

Township	Limestone
Frankfort	\$2.10
Garfield	1.90
Grant	2.10
Lincoln	1.70
Pilot Grove	2.00
Red Oak	2.00
Scott	2.20
Sherman	1.90
Washington	2.20
West	2.00

**MUSCATINE COUNTY**

Bloomington	\$1.70
Cedar	1.90
Fruitland	1.60
Fulton	1.50
Goshen	1.60
Lake	1.80
Montpelier	1.40
Moscow	1.60
Orono	1.90
Pike	1.80
Seventy-Six	1.80
Sweetland	1.50
Wapsinonoc	1.60
Wilton	1.50

**O'BRIEN COUNTY**

All townships	\$2.40
---------------	--------

**OSCEOLA COUNTY**

All townships	\$2.40
---------------	--------

**PAGE COUNTY**

All townships	\$2.30
---------------	--------

**PALO ALTO COUNTY**

All townships	\$2.30
---------------	--------

**PLYMOUTH COUNTY**

Township	Limestone
All townships	\$2.50

**POCAHONTAS  
COUNTY**

Belleville	\$2.00
Cedar	2.10
Colfax	2.10
Cummins	2.00
Des Moines	1.70
Dover	2.10
Garfield	1.40
Grant	2.00
Lake	1.50
Lincoln	1.80
Lizard	1.80
Marshall	2.00
Powhatan	1.90
Roosevelt	1.70
Sherman	1.90
Swan Lake	2.10

**POLK COUNTY**

Allen	\$2.20
Beaver	2.40
Bloomfield	2.20
Camp	2.40
Clay	2.30
Croker	2.20
Delaware	2.20
Douglas	2.10
Elkhart	2.10
Four Mile	2.30
Franklin	2.20
Jefferson	2.10
Lincoln	2.00
Madison	2.10
Saylor	2.20
Union	2.10
Walnut	2.00

**POLK COUNTY—Con.**

Township	Limestone
Washington	\$2.20
Webster	2.20

**EAST POTTAWATTA-  
MIE COUNTY**

Belknap	\$1.70
Carson	1.60
Center	1.70
Grove	1.60
James	1.90
Knox	2.10
Layton	2.20
Lincoln	2.10
Macedonia	1.40
Pleasant	2.10
Valley	1.90
Washington	1.70
Waveland	1.80
Wright	1.90

**WEST POTTAWATTA-  
MIE COUNTY**

All townships	\$2.00
---------------	--------

**POWESHIEK COUNTY**

Bear Creek	\$1.90
Chester	1.60
Deep River	2.20
Grant	1.80
Jackson	2.00
Jefferson	1.90
Lincoln	2.00
Madison	1.80
Malcom	1.80
Pleasant	1.90
Scott	2.00
Sheridan	1.70
Sugar Creek	1.90
Union	2.00
Warren	2.00
Washington	1.80

**RINGGOLD COUNTY**

Township	Lime- stone	No. 2 Lime- stone	Township	Lime- stone	No. 2 Lime- stone
Athens	\$2.00	\$1.70	Monroe	\$1.90	\$1.60
Benton	2.50	2.10	Poe	2.10	1.80
Clinton	2.50	2.10	Rice	2.30	2.00
Grant	2.50	2.10	Riley	2.10	1.80
Jefferson	2.40	2.00	Tingley	2.20	1.90
Liberty	2.10	1.80	Union	1.90	1.60
Lincoln	2.50	2.10	Washington	2.20	1.90
Lotts Creek	2.30	2.00	Waubonsie	2.30	2.00
Middle Fork	2.40	2.00			

**SAC COUNTY**

Township	Limestone
All townships	\$2.30

**SCOTT COUNTY**

Allens Grove	\$1.50
Blue Grass	1.20
Buffalo	1.20

**SCOTT COUNTY—Con.**

Township	Limestone
Butler	\$1.40
Cleona	1.40
Davenport	1.30
Hickory Grove	1.40
Le Claire	1.50
Liberty	1.40

**SCOTT COUNTY—Con.**

Township	Limestone
Lincoln	\$1.40
Pleasant Valley	1.40
Princeton	1.50
Rockingham	1.20
Sheridan	1.50
Winfield	1.60

SHELBY COUNTY	
Township	Limestone
All townships.....	\$2.20

SIOUX COUNTY	
All townships.....	\$2.50

STORY COUNTY	
Collins.....	\$2.10
Franklin.....	1.40
Grant.....	1.70
Howard.....	1.70
Indian Creek.....	2.00
Lafayette.....	1.60
Lincoln.....	2.10
Milford.....	1.50
Nevada.....	1.80
New Albany.....	2.00
Palestine.....	1.80
Richland.....	1.70
Sherman.....	1.90
Union.....	1.90
Warren.....	1.90
Washington.....	1.60

TAMA COUNTY	
Buckingham.....	\$1.70
Carlton.....	1.10
Carroll.....	1.70
Clark.....	1.70
Columbia.....	1.70
Crystal.....	1.70
Geneseo.....	1.40
Grant.....	2.00
Highland.....	1.50
Howard.....	1.60
Indian Village.....	1.10
Lincoln.....	1.70
Oneida.....	1.90
Otter Creek.....	1.70
Perry.....	1.90
Richland.....	1.90
Salt Creek.....	2.10
Spring Creek.....	1.50
Tama.....	1.50
Toledo.....	1.50
York.....	1.90

TAYLOR COUNTY	
Township	Limestone
All townships.....	\$2.20

UNION COUNTY	
Dodge.....	\$2.20
Douglas.....	2.20
Grant.....	2.40
Highland.....	2.20
Jones.....	1.90
Lincoln.....	2.10
New Hope.....	2.00
Platte.....	2.40
Pleasant.....	2.10
Sand Creek.....	2.20
Spaulding.....	2.10
Union.....	2.10

VAN BUREN COUNTY	
Bonaparte.....	\$1.80
Cedar.....	1.50
Chequist.....	1.50
Des Moines.....	1.70
Farmington.....	1.90
Harrisburg.....	1.70
Henry.....	1.70
Jackson.....	1.70
Lick Creek.....	1.50
Union.....	1.70
Van Buren.....	1.60
Vernon.....	1.80
Village.....	1.40
Washington.....	1.70

WAPELLO COUNTY	
Adams.....	\$1.90
Agency.....	1.90
Cass.....	1.50
Center.....	1.80
Columbia.....	1.60
Competine.....	2.00
Dahlonga.....	1.90

WAPELLO COUNTY— Continued	
Township	Limestone
Green.....	\$2.00
Highland.....	1.90
Keokuk.....	2.10
Pleasant.....	2.10
Polk.....	1.60
Richland.....	1.70
Washington.....	1.70

WARREN COUNTY	
Allen.....	\$2.20
Belmont.....	2.40
East Lincoln.....	2.10
Greenfield.....	2.20
Jackson.....	1.90
Jefferson.....	1.80
Liberty.....	2.10
Linn.....	2.00
Otter.....	2.20
Palmyra.....	2.30
Richland.....	2.40
Squaw.....	2.00
Union.....	2.30
Virginia.....	1.80
West Lincoln.....	2.00
White Breast.....	2.20
White Oak.....	2.10

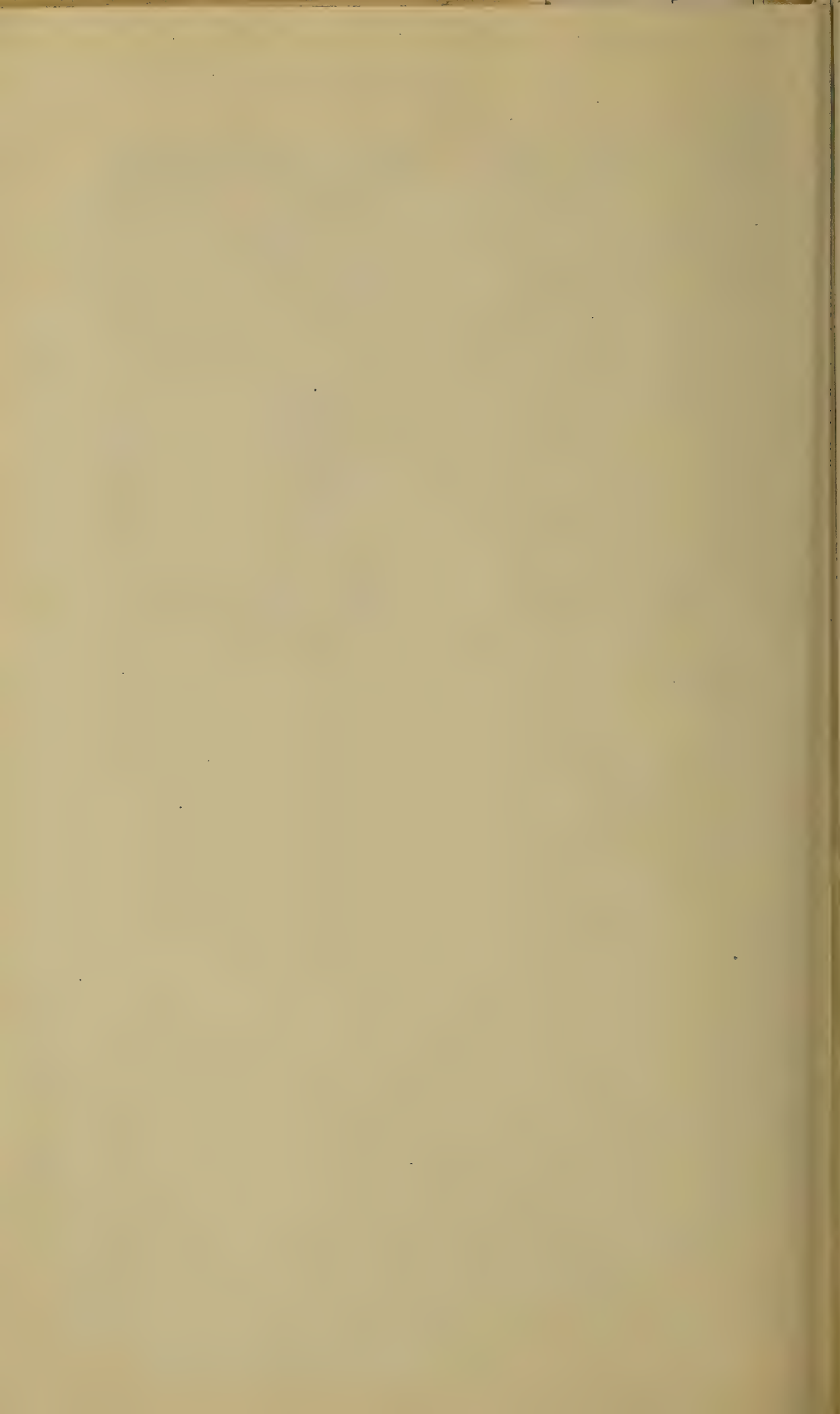
WASHINGTON COUNTY	
Brighton.....	\$2.00
Cedar.....	2.10
Clay.....	2.20
Crawford.....	1.60
Dutch Creek.....	2.10
English River.....	2.10
Franklin.....	2.00
Highland.....	1.80
Iowa.....	2.00
Jackson.....	2.00
Lime Creek.....	2.30
Marion.....	1.90
Oregon.....	1.60
Seventy-Six.....	2.20
Washington.....	1.80

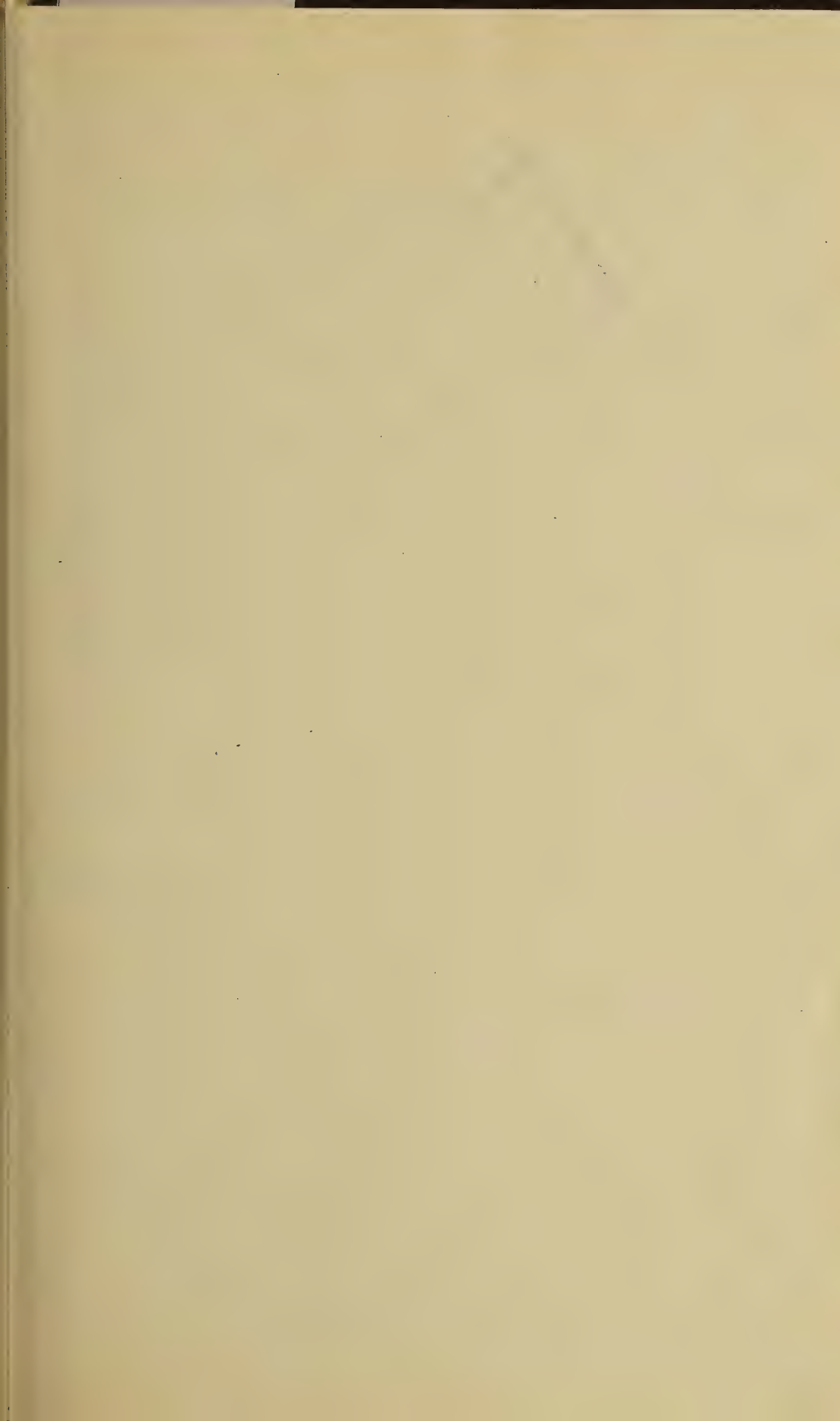
## WAYNE COUNTY

Township	Lime- stone	No. 2 Lime- stone	Township	Lime- stone	No. 2 Lime- stone
Benton.....	\$2.00	\$1.70	Monroe.....	\$1.90	\$1.60
Clay.....	2.30	2.00	Richman.....	2.20	1.90
Clinton.....	2.40	2.00	South Fork.....	1.80	1.50
Corydon.....	1.90	1.60	Union.....	1.80	1.50
Grand River.....	2.40	2.00	Walnut.....	1.80	1.50
Howard.....	2.10	1.80	Warren.....	2.30	2.00
Jackson.....	1.90	1.60	Washington.....	2.00	1.70
Jefferson.....	2.40	2.00	Wright.....	1.60	1.30

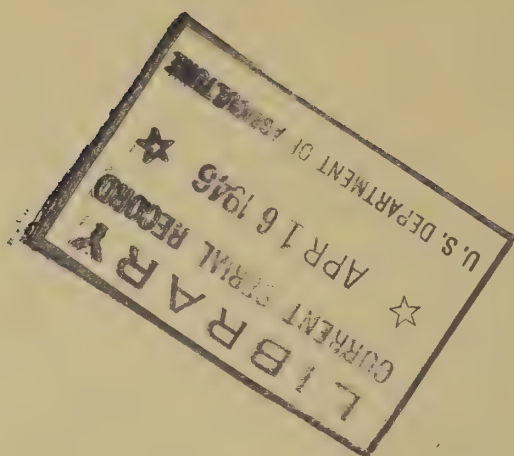


WEBSTER COUNTY		WINNEBAGO COUNTY—Continued		WINNESHIEK COUNTY—Continued	
Township	Limestone	Township	Limestone	Township	Limestone
Badger.....	\$1.70	Forest.....	\$1.90	Military.....	\$1.30
Burnside.....	1.90	Grant.....	2.10	Orleans.....	1.30
Clay.....	1.90	King.....	2.00	Pleasant.....	1.50
Colfax.....	1.70	Lincoln.....	2.30	Springfield.....	1.30
Cooper.....	1.50	Linden.....	1.90	Sumner.....	1.30
Dayton.....	2.00	Logan.....	2.10	Washington.....	1.30
Deer Creek.....	1.70	Mount Valley.....	1.70		
Douglas.....	1.50	Newton.....	2.00	WOODBURY COUNTY	
Elkhorn.....	1.50	Norway.....	2.00	All townships.....	\$2.50
Fulton.....	1.70				
Gowrie.....	2.00	WINNESHIEK COUNTY		WORTH COUNTY	
Hardin.....	2.20	Bloomfield.....	\$1.30	Barton.....	\$1.60
Jackson.....	1.80	Bluffton.....	1.40	Bristol.....	1.70
Johnson.....	1.70	Burr Oak.....	1.40	Brookfield.....	1.70
Lost Grove.....	2.00	Calmar.....	1.30	Danville.....	1.60
Newark.....	1.90	Canoe.....	1.30	Deer Creek.....	1.30
Otho.....	1.70	Decorah.....	1.20	Fertile.....	1.50
Roland.....	1.90	Frankville.....	1.50	Grove.....	1.60
Washington.....	1.90	Fremont.....	1.40	Hartland.....	1.70
Webster.....	2.00	Glenwood.....	1.50	Kensett.....	1.70
Yell.....	2.10	Hesper.....	1.40	Lincoln.....	1.60
WINNEBAGO COUNTY		Highland.....	1.50	Silver lake.....	1.80
Buffalo.....	\$2.10	Jackson.....	1.30	Union.....	1.70
Center.....	1.80	Lincoln.....	1.30	WRIGHT COUNTY	
Eden.....	2.10	Madison.....	1.30	All townships.....	\$2.00









UNITED STATES DEPARTMENT OF AGRICULTURE

PRODUCTION AND MARKETING ADMINISTRATION

FIELD SERVICE BRANCH

Washington, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

**MICHIGAN COMMITTEEMAN'S PRACTICE HANDBOOK**

The 1946 Farm Program is designed to assist the farmers of Michigan to the fullest possible extent in protecting their soils against damage from erosion and loss of fertility.

The county committee will designate those practices which will be approved for payment in the county in order that the available funds will be used most effectively to bring about increased conservation. Written approval by the county committee must be obtained for each practice to be performed on any individual farm prior to the carrying out of such practice, except that practices performed before April 1, 1946, may be approved retroactively by the county committee.

**A. FUNDS AVAILABLE FOR CONSERVATION PRACTICES ON INDIVIDUAL FARMS**

The county and community committeemen will determine for each farm, on the basis of the conservation needs and farmer's intentions, maximum payments for each practice approved for the farm. The sum of the maximum payments approved cannot exceed the county limits approved for this purpose by the State Committee. Official notice of such approval will be forwarded to the operator and other parties interested in the operation of the farm.

**B. CONSERVATION PRACTICES**

The practices available for 1946 are those which are most needed in order to conserve and improve soil fertility, improve pasture land, prevent wind and water erosion, and promote conservation and better utilization of water. Assistance will be available for carrying out the following practices during the program year January 1, 1946, through December 31, 1946. To qualify for payment, each practice must be carried out in accordance with the specifications for that practice and be in keeping with good farming practices for the locality.

Except as stated below, the total extent of any practice performed shall be reduced for purposes of payment by the percentage of the total cost of the practice which the county committee determines was furnished by a State or Federal agency. The extent of any practice shall not be reduced because a portion of the cost is represented by materials or services furnished by the F. S. B., or equipment furnished by S. C. S., or materials or services furnished by an agency of a State or political subdivision thereof to another agency or political subdivision of the

same State, or trees purchased from a Clark-McNary Cooperative State Nursery.

(1) **Liming materials.**—Application of the following materials:

(a) **One ton of agricultural ground limestone** containing at least 80 percent calcium carbonate equivalent, and ground sufficiently fine so that 80 percent, including all of the finer particles obtained in the grinding process, will pass through U. S. Standard No. 8 mesh sieve, and 20 percent through a U. S. Standard No. 100 mesh sieve. The moisture content at the time of shipment must not exceed 8 percent. The calcium carbonate equivalent and the percent passing through a U. S. Standard No. 8 sieve must be at least 80 and one or both must be greater than 80 so that the multiplication of the percent of calcium carbonate equivalent by the percent of material passing through a U. S. Standard No. 8 sieve will be equal to or in excess of 0.72.

(b) **One ton of calcium carbide refuse lime** containing at least 85 percent calcium carbonate, and testing not more than 35 percent moisture at the shipping point.

(c) **One cubic yard of marl** containing at least 70 percent calcium carbonate equivalent.

(d) **One cubic yard of sugar beet refuse lime** containing at least 70 percent calcium carbonate equivalent.

(e) **One cubic yard of water softening process lime** containing at least 70 percent calcium carbonate equivalent.

(f) **One cubic yard of paper mill refuse lime** containing at least 70 percent calcium carbonate equivalent.

(g) **One cubic yard of hardwood ashes** containing at least 50 percent calcium carbonate equivalent.

(h) **One ton of hydrated lime.**

A correspondingly greater amount of material must be required if the material does not meet the specifications.

(2) **Fertilizers—NORTHERN PENINSULA.**—Application of **superphosphate, defluorinated phosphate rock, or potash** applied to:

(1) **pastures**; (2) **new seedings** of biennial or perennial legumes or perennial grasses, with or without a nurse crop; (3) **old stands** of biennial or perennial legumes or perennial grasses, provided the acreage on which such applications are made is not devoted to, cultivated for, or plowed for any other crop prior to January 1, 1947; and (4) **green manure crops** in orchards. No credit will be given for fertilizers furnished by the Government when applied to a seeding where wheat is used as a nurse crop.

(a) Superphosphate or defluorinated phosphate rock.—\$4 per 100 lbs. of available  $P_2O_5$ .

(b) Potash.—\$2.50 per 100 lbs. of available  $K_2O$ .

(c) 100 lbs. of 0-9-27----- \$1.00

(d) 100 lbs. of 0-10-20----- .90

(e) 100 lbs. of 0-12-12----- .80

(f) 100 lbs. of 0-14-7----- .70

(g) 100 lbs. of 0-14-14----- .90

(h) 100 lbs. of 0-18-0----- .70

(i) 100 lbs. of 0-19-0----- .80

(j) 100 lbs. of 0-20-0----- .80

(k) 100 lbs. of 0-20-10----- 1.00

(l) 100 lbs. of 0-20-20----- 1.30

(m) 100 lbs. of 2-12-6----- \$0.60

(n) 100 lbs. of 2-16-8----- .80

(o) 100 lbs. of 3-9-18----- .80

(p) 100 lbs. of 3-12-12----- .80

(q) 100 lbs. of 4-10-6----- .50

(r) 100 lbs. of 4-16-0----- .60

(s) 100 lbs. of 4-16-4----- .70

(t) 100 lbs. of 8-8-8----- .50

(u) 100 lbs. of 10-6-4----- .30

(3) **Fertilizers—SOUTHERN PENINSULA.**—Application of **superphosphate, defluorinated phosphate rock, or potash** applied to: (1) **pastures**; (2) **new seedings** of biennial or perennial legumes or perennial grasses, with or without a nurse crop; (3) **old stands** of biennial or perennial legumes or perennial grasses, provided the acreage on which such applications are made is not devoted to, cultivated for, or



plowed for any other crop prior to January 1, 1947; and (4) **green manure crops** in orchards. No credit will be given for fertilizers furnished by the Government when applied to a seeding where wheat is used as a nurse crop.

(a) Superphosphate or defluorinated phosphate rock.—\$3.50 per 100 lbs. of available  $P_2O_5$ .

(b) Potash.—\$2.50 per 100 lbs. of available  $K_2O$ .

(c) 100 lbs. of 0-9-27-----	\$1. 00	(m) 100 lbs. of 2-12-6-----	\$0. 60
(d) 100 lbs. of 0-10-20-----	. 80	(n) 100 lbs. of 2-16-8-----	. 80
(e) 100 lbs. of 0-12-12-----	. 70	(o) 100 lbs. of 3-9-18-----	. 80
(f) 100 lbs. of 0-14-7-----	. 70	(p) 100 lbs. of 3-12-12-----	. 70
(g) 100 lbs. of 0-14-14-----	. 80	(q) 100 lbs. of 3-18-9-----	. 90
(h) 100 lbs. of 0-18-0-----	. 60	(r) 100 lbs. of 4-10-6-----	. 50
(i) 100 lbs. of 0-19-0-----	. 70	(s) 100 lbs. of 4-16-0-----	. 60
(j) 100 lbs. of 0-20-0-----	. 70	(t) 100 lbs. of 4-16-4-----	. 70
(k) 100 lbs. of 0-20-10-----	. 90	(u) 100 lbs. of 8-8-8-----	. 50
(l) 100 lbs. of 0-20-20-----	1. 20	(v) 100 lbs. of 10-6-4-----	. 30

(4) **Complete pasture establishment.**—Establishing of permanent pasture by carrying out all of the following practices.—\$4 per acre:

(a) Spring plowing of June grass sod before June 15, 1946, followed by a thorough seedbed preparation.

(b) Application of the necessary amounts of liming materials and not less than 200 pounds of fertilizer adaptable to soil types. Credit for the liming materials and fertilizer applied will be given under Practices (1), (2), or (3).

(c) Making a seeding of not less than 8 pounds of alfalfa and 7 pounds of smooth brome grass per acre, in August 1946.

(5) **Complete pasture establishment on muck or overflow land.**—Establishment of pasture on muck or overflow land where cultivated crops are not adapted, by carrying out all of the following practices.—\$2 per acre:

(a) By plowing and preparing a thorough seedbed.

(b) Application of necessary amounts of liming materials and not less than 400 pounds of fertilizer containing both phosphate and potash. Credit for the liming materials and fertilizer applied will be given under Practices (1), (2), or (3).

(c) Making a seeding of not less than 5 pounds of reeds canary grass per acre.

(6) **Green manure crops.**—Disking or plowing under a good stand and a good growth of the following crops. If the land is subject to erosion and the green manure is plowed down in the fall, the land must be protected by a winter cover crop.—\$1.50 per acre:

(a) Millet, buckwheat, sudan grass, oats, barley, wheat, in orchards, vineyards, and on vegetable land.

(b) 1945 fall seedings of winter rye or winter vetch.

(c) Sweet clover and/or domestic rye grass.

(d) Mammoth or medium red clover turned under in the fall of 1946.

(7) **Go-down crops in commercial orchards and vineyards.**—Protecting the soil from wind and water erosion by the use of go-down crops, provided a good vegetative growth is obtained and the crop is not pastured or harvested for hay, grain, seed, or forage, or otherwise taken from the land.—\$1.50 per acre:

(a) Millet, buckwheat, sudan grass, oats, spring barley, and soybeans.

(b) Biennial legumes which are clipped at intervals the second year so as to serve as a go-down crop.

(8) **Mulching materials.**—Application of small grain straw or legume or grass hay in commercial orchards, in vineyards, on strawberries, or on other small fruit.—**\$5 per ton.**

(9) **Construction of open farm drainage ditches.**—Construction or enlargement of open farm drainage ditches (except ditches constructed or maintained by a drainage district) including lateral and lead ditches for which proper outlets are provided, and adequate provision is made for entrance of water into and out of the ditches. The ditches must have sufficient capacity to remove the normal excess surface water. No credit will be given for material moved in cleaning the ditch.—**\$0.08 per cu. yd. of material moved, but not in excess of \$8 per 100 linear feet.**

(10) **Excavation of ditches for tile drainage.**—Excavation for the purpose of installation of tile drains, provided the size of tile, outlets, and gradient meet the specifications for standard drainage as recommended by the U. S. Department of Agriculture; not less than 75 percent of the area to be drained is cropland; and no part of the tile lines is to be used for any other purpose than the draining of agricultural land.—**\$0.40 per rod.**

(11) **Cross-slope farming of row crops.**—Growing row crops as nearly as possible on the contour. Contour lines must be run. All tillage operations in connection with the seeding must also be approximately on the contour. No credit will be given for this practice for any acreage qualifying under Practice (13), establishing cross-slope stripcropping.—**\$1 per acre.**

(12) **Cross-slope seeding.**—Seeding of small grain crops as nearly as possible on the contour. Contour lines must be run. All tillage operations in connection with the seeding must be approximately on the contour. No credit will be given for this practice for any acreage qualifying under Practice (13), establishing cross-slope stripcropping.—**\$0.35 per acre.**

(13) **Establishing cross-slope stripcropping.**—Growing alternate strips of row crops with sown, close-drilled, or sod crops, as nearly as practical on the contour, provided: (1) the strips are approximately the same width; (2) the strips are not less than 3 rods nor more than 10 rods in width; (3) the crop stubble is left standing or a good stand of a winter cover crop is obtained; (4) contour lines are run. When in the normal course of rotation, it becomes necessary to have two adjacent strips of sown, close-drilled, or sod crops, payment will be made for the entire field.

(a) Less than 33 percent of the field in perennial grass or perennial legumes.—**\$0.75 per acre.**

(b) 33 percent or more of the field in perennial grass or perennial legumes.—**\$1.50 per acre.**

(14) **Field stripcropping not on the contour—water erosion.**—Growing alternate strips of intertilled crops with sown, close-drilled, or sod crops, provided: (1) the strips are approximately parallel and are laid out across the general slope; (2) the strips are approximately the same width; (3) the strips are not less than 3 rods nor more than 10 rods in width; and (4) the crop stubble is left standing or a good stand of a winter cover crop is obtained. Approval must not be given for this practice on fields containing over 40-acres.—**\$0.75 per acre.**

(15) **Field stripcropping not on the contour-wind erosion.**—Growing alternate strips of intertilled crops with sown, close-drilled, or sod crops, provided: (1) the strips are approximately parallel and are laid out at right angles to the prevailing winds or in a continuous "S" so that the winds cannot blow parallel to the rows of crops; (2) the strips are not less than 3 rods nor more than 20 rods in width; and (3) the crop stubble is left standing or a good stand of a winter cover crop is obtained.—**\$0.50 per acre.**

(16) **Establishing sod waterways.**—Establishing a permanent sod waterway on any cropland where a permanent vegetative cover is necessary in a waterway channel or in cultivated orchards. The channel of the waterway must be sufficiently wide to carry the run-off from the drainage area and must be at least 10 feet in width at the narrowest point. The channel must contain perennial grasses and a good vegetative growth must be obtained.—**\$0.75 per 1,000 square feet.**

(17) **Establishing permanent sod in orchards.**—Approval may be given only where the slope is sufficiently steep that a sod cover is necessary to prevent erosion. The following operations must be performed.—**\$3 per acre:**

(a) Prepare a thorough seedbed.

(b) Apply the necessary amounts of liming materials and fertilizers. Credit for the liming materials and fertilizer applied will be given under Practices (1), (2), or (3).

(c) A seeding of not less than 10 pounds per acre of Kentucky blue grass, Canadian blue grass, or chewings fescue.

(18) **Tree planting for reforestation, gully control, and windbreaks.**—Prior approval of the site and the species of the tree to be planted must be obtained from the county committee. The plantings must be made in accordance with good tree culture and must be protected from fire and grazing.

(a) For forest purposes.—White pine, red pine, jack pine, scots pine, Norway spruce, white spruce, white cedar, hard maple, white ash, yellow poplar, black walnut, American elm, basswood, red oak, white oak, black cherry, and cottonwood.—**\$1 per 100 trees not in excess of \$7.50 per acre.**

(b) For gully control.—Black locust, honey locust, coral berry, gray dogwood, Red-Osier dogwood, elder, wild grape, wild rose, and sumac.—**\$1 per 100 trees but not in excess of \$7.50 per acre.**

(c) For farmstead windbreaks.—White pine, red pine, jack pine, Norway spruce, white spruce, and white cedar on a maximum spacing of 8 feet by 10 feet with at least 3 rows of trees.—**\$2 per 100 trees.**

(d) For field windbreaks.—White pine, red pine, jack pine, Norway spruce, white spruce, and white cedar on a maximum spacing of 8 feet by 10 feet with at least 2 rows of trees.—**\$2 per 100 trees.**

(19) **Planting muck land windbreaks.**—With prior approval of the county committee, planting of willow cuttings on muck land. The cuttings must be spaced not less than 18 inches in parallel rows not more than 300 feet apart.—**\$1 per 100 cuttings.**

(20) **Weed eradication on cropland.**—Eradication of seriously infested plots of Quack Grass. Payment for this practice may be approved only on farms where approved weed control measures are being carried out on all adjacent infested farms and contiguous land, where the infestation is limited to a single farm, or where the country committee determines there is no likelihood of reinfestation. No crop may be taken from the land but the weeds may be cut and removed before tillage is begun.



(a) By use of sodium chlorate or other chemicals approved by the State Committee.—\$0.06 per pound.

(b) By continuous clean tillage.—\$5 per acre.

#### CUT-OVER AREA PRACTICES

The cut-over area includes the following countries: Alcona, Alger, Alpena, Antrim, Arenac, Baraga, Benzie, Charlevoix, Cheboygan, Chippewa, Clare, Crawford, Delta, Dickinson, Emmet, Gladwin, Gogebic, Grand Traverse, Houghton, Iron, Iosco, Kalkaska, Keweenaw, Lake Leelanau, Luce, Mackinac, Manistee, Marquette, Mason, Menominee, Midland, Missaukee, Montmorency, Mecosta, Muskegon, Newaygo, Oscoda, Otsego, Oceana, Ogemaw, Osceola, Ontonagon, Presque Isle, Roscommon, Schoolcraft, and Wexford.

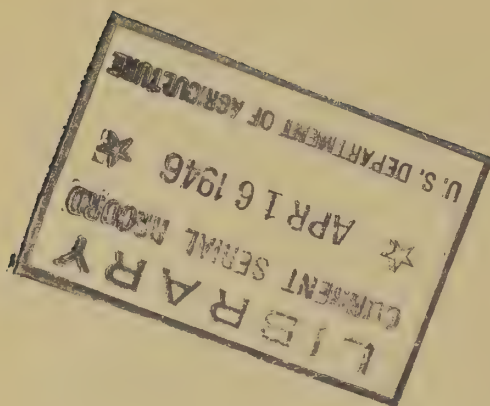
(21) **Clearing farm land now unsuited for tillage on farms with less than 60 acres of cropland.**—All loose stones, stumps, underbrush, and forest tree growth must be removed and hummocks leveled in shape for cultivation. No credit will be given for clearing land which is now supporting a stand of merchantable timber. Approval must not be given where it is clear that water erosion hazards will result or where the soils of the land to be cleared are not equal to or superior to the soils now under cultivation on the farm. Land on which it appears that it would be necessary to remove stones annually in large quantities should not receive the approval of the committee. Land which must be drained before being put into cultivation must not be approved unless the county committee is assured that adequate draining facilities will be provided by the farmer before the end of the program year. No credit will be given for this practice if the estimated cost of clearing the land is less than \$20 per acre, or if the land is not plowed prior to January 1, 1947.—\$10 per acre.

(22) **Clearing land for pasture.**—Clearing land for the establishment of pasture by uprooting and removing all shrubs and forest tree growth, leveling hummocks, carrying out an adequate system of mowing, and removing loose stones. Tree growth sufficient to provide shade for livestock may be left in the pasture area. Approval must not be given unless the county committee determines that the pasture when established will be capable of carrying at least one animal unit for each 2 acres during a pasture season of at least 4 months. Tracts which are not a part of an operating unit must not be approved. Credit will not be given unless liming materials, fertilizer, and seed are applied in necessary amounts. No credit will be given if the estimated cost of clearing is less than \$10 per acre.—\$5 per acre.

#### C. POOLING AGREEMENTS

Producers in any local area may agree in writing, with the approval of the County and State Committees, to cooperatively perform the following practices on one or more of the farms operated by each producer, provided all of their farms are benefited by the performance of such practice: Practice (9) construction of open farm drainage ditches and Practice (10) excavation of ditches for tile drainage. Instructions for carrying out a pooling agreement are contained in NCR-46-2.







UNITED STATES DEPARTMENT OF AGRICULTURE  
 PRODUCTION AND MARKETING ADMINISTRATION  
 FIELD SERVICE BRANCH—WASHINGTON, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM NORTH CENTRAL REGION

SUPPLEMENT 1 TO MICHIGAN COMMITTEEMAN'S  
 PRACTICE HANDBOOK

1946 CREDIT RATES FOR LIMING MATERIALS

Following are the materials for which the credit rates are the same throughout the State:

Type of material	Credit rate
Water-softening process lime-----	\$0.70 per cu. yd.
Hydrated lime -----	4.00 per ton.

The following are the credit rates for the other liming materials for which credit will be given in your county. The rates for limestone and carbide refuse are on a ton basis, and the rates for marl, sugarbeet refuse, paper mill refuse, and wood ashes are on a cubic yard basis.

ALCONA COUNTY

Township	Lime-stone	Marl
Alcona-----	\$1.40	\$0.70
Caledonia-----	1.20	.70
Curtis-----	1.70	.70
Greenbush-----	1.70	.70
Gustin-----	1.70	.70
Harrisville-----	1.40	.70
Hawes-----	1.40	.70
Haynes-----	1.40	.70
Mikado-----	1.70	.70
Millen-----	1.70	.70
Mitchell-----	1.70	.70

ALGER COUNTY

Township	Lime-stone
All townships-----	\$2.40

ALLEGAN COUNTY

Township	Lime-s one	Marl
Allegan-----	\$2.20	\$0.70
Casco-----	2.10	.90
Cheshire-----	2.20	.80

ALLEGAN COUNTY—Continued

Township	Lime-stone	Marl
Clyde-----	\$2.30	\$0.80
Dorr-----	2.20	.80
Fillmore-----	2.30	.90
Ganges-----	2.30	.80
Gunplain-----	2.20	.80
Heath-----	2.20	.70
Hopkins-----	2.40	.80
Laketown-----	2.30	.90
Lee-----	2.20	.80
Leighton-----	2.40	.80
Manlius-----	2.30	.80
Martin-----	2.40	.80
Monterey-----	2.20	.70
Otsego-----	2.20	.70
Overrisel-----	2.30	.80
Salem-----	2.40	.80
Saugatuck-----	2.30	.80
Trowbridge-----	2.20	.80
Valley-----	2.30	.70
Watson-----	2.20	.80
Wayland-----	2.40	.80

ALPENA COUNTY

Township	Lime-stone
Alpena-----	\$0.90
Green-----	1.30
Long Rapids-----	1.30

## ALPENA COUNTY—Continued

Township	Lime-stone
Maple Ridge.....	\$1.30
Ossineke.....	1.30
Sanborn.....	1.30
Wellington.....	1.30
Wilson.....	1.30

## ANTRIM COUNTY

Township	Lime-stone	Marl
All townships.....	\$2.20	\$0.90

## ARENAC COUNTY

All townships.....	\$2.40	\$1.20
--------------------	--------	--------

## BARAGA COUNTY

All townships.....	\$2.60	
--------------------	--------	--

## BARRY COUNTY

Township	Lime-stone	Marl	Carbide Refuse
Assyria.....	\$2.40	\$0.90	\$1.60
Baltimore.....	2.40	.90	
Barry.....	2.40	.90	1.60
Carlton.....	2.40	.90	
Castleton.....	2.40	.90	
Hastings.....	2.40	.70	
Hope.....	2.40	.90	
Irving.....	2.40	.80	
Johnstown.....	2.40	.90	1.60
Maple Grove.....	2.40	.90	
Orangeville.....	2.40	.80	
Prairieville.....	2.40	.80	
Rutland.....	2.40	.90	
Thornapple.....	2.40	.80	
Woodland.....	2.40	.90	
Yankee Springs.....	2.40	.80	

## BAY COUNTY

Township	Lime-stone	Sugar Beet Refuse
Bangor.....	\$2.40	\$0.60
Beaver.....	2.40	.80
Frankenlust.....	2.40	.70
Frazer.....	2.40	.80
Garfield.....	2.40	.80
Gibson.....	2.40	.80
Hampton.....	2.40	.70

## BAY COUNTY—Continued

Township	Lime-stone	Sugar Beet Refuse
Kawkawlin.....	\$2.40	\$0.80
Merritt.....	2.40	.80
Monitor.....	2.40	.70
Mount Forest.....	2.40	.80
Pinconning.....	2.40	.80
Portsmouth.....	2.40	.80
Williams.....	2.40	.80

## BENZIE COUNTY

Township	Lime-stone	Marl
Almira.....	\$2.60	\$0.70
Benzonia.....	2.60	.80
Blaine.....	2.60	.80
Colfax.....	2.60	.70
Crystal Lake.....	2.60	.80
Gilmore.....	2.60	.80
Homestead.....	2.60	.70
Inland.....	2.60	.60
Joyfield.....	2.60	.80
Lake.....	2.60	.80
Platte.....	2.60	.80
Weldon.....	2.60	.70

## BERRIEN COUNTY

Bainbridge.....	\$2.20	\$0.80
Baroda.....	2.20	1.10
Benton.....	1.90	.90
Berrien.....	2.30	1.00
Bertrand.....	2.40	1.00
Buchanan.....	2.40	1.00
Chickaming.....	2.30	1.00
Coloma.....	2.20	1.10
Galien.....	2.40	.90
Hager.....	2.20	1.00
Lake.....	2.20	1.10
Lincoln.....	2.10	1.10
New Buffalo.....	2.40	1.20
Niles.....	2.40	1.20
Oronoko.....	2.30	1.10
Pipestone.....	2.30	.80
Royalton.....	2.20	1.00
St. Joseph.....	1.90	1.00
Sodus.....	2.10	1.10
Three Oaks.....	2.40	1.00
Watervliet.....	2.20	.90
Weesaw.....	2.20	.90

## BRANCH COUNTY

Algansee.....	\$2.40	\$0.80
Batavia.....	2.40	.80
Bethel.....	2.40	1.00
Bronson.....	2.40	1.00
Butler.....	2.40	1.00

## BRANCH COUNTY—Continued

Township	Lime-stone	Marl
California.....	\$2.40	\$1.00
Coldwater.....	2.40	.90
Gilead.....	2.40	1.00
Girard.....	2.40	1.00
Kinderhook.....	2.40	.80
Matteson.....	2.40	.80
Noble.....	2.40	1.00
Ovid.....	2.40	.90
Quincy.....	2.40	.90
Sherwood.....	2.40	.80
Union.....	2.40	.90

## CALHOUN COUNTY

Albion.....	\$2.40	\$0.90
Athens.....	2.40	.90
Battle Creek.....	2.30	.80
Bedford.....	2.30	.80
Burlington.....	2.30	.80
Clarence.....	2.40	.90
Clarendon.....	2.40	.90
Convis.....	2.30	.90
Eckford.....	2.40	.90
Emmett.....	2.30	.80
Fredonia.....	2.40	.90
Homer.....	2.40	.90
Lee.....	2.40	.90
LeRoy.....	2.30	.70
Marengo.....	2.40	.90
Marshall.....	2.40	.90
Newton.....	2.30	.80
Pennfield.....	2.30	.80
Sheridan.....	2.40	.90
Tekonsha.....	2.40	.90

## CASS COUNTY

All townships.....	\$2.50	\$1.00
--------------------	--------	--------

## CHARLEVOIX COUNTY

All townships.....	\$2.10	\$1.00
--------------------	--------	--------

## CHEBOYGAN COUNTY

Aloha.....	\$1.60	\$0.80
Beaugrand.....	1.60	.80
Benton.....	1.60	.80
Burt.....	1.50	.70
Cheboygan City.....	1.60	.70
Ellis.....	1.60	.80
Forest.....	1.60	.80
Grant.....	1.60	.80
Hebron.....	1.60	.80
Inverness.....	1.60	.70
Koehler.....	1.60	.80

## CHEBOYGAN COUNTY—Cont.

Township	Lime-stone	Marl
Mackinaw.....	\$1.60	\$0.80
Maple Grove.....	1.80	.90
Mentor.....	1.40	.70
Mullet.....	1.50	.70
Munro.....	1.60	.70
Nunda.....	1.80	.90
Tuscarora.....	1.40	.70
Walker.....	1.80	.90
Waverly.....	1.60	.80
Wilmot.....	1.60	.80

## CHIPPEWA COUNTY

Township	Lime-stone	Carbide Refuse
All townships.....	\$2.60	\$1.60

## CLARE COUNTY

Township	Lime-stone	Marl	Sugar Beet Refuse
Arthur.....	\$2.50	\$0.80	\$0.90
Franklin.....	2.50	.80	.90
Freeman.....	2.50	.90	.90
Frost.....	2.50	.90	.90
Garfield.....	2.50	.80	.90
Grant.....	2.50	.80	.90
Greenwood.....	2.50	.90	.90
Hamilton.....	2.50	.80	.90
Hatton.....	2.50	.80	.90
Hayes.....	2.50	.90	.90
Lincoln.....	2.50	.80	.90
Redding.....	2.50	.90	.90
Sheridan.....	2.50	.80	.90
Summerfield.....	2.50	.90	.90
Surrey.....	2.50	.80	.90
Winterfield.....	2.50	1.00	.90

## CLINTON COUNTY

Bath.....	\$2.40	\$0.90	\$0.70
Bengal.....	2.40	.90	.70
Bingham.....	2.40	.90	.70
Dallas.....	2.40	.90	.70
DeWitt.....	2.50	.90	.70
Duplain.....	2.40	.90	.70
Eagle.....	2.50	.90	.70
Essex.....	2.30	.90	.70
Greenbush.....	2.30	.90	.70
Lebanon.....	2.30	.90	.70
Olive.....	2.40	.90	.70
Ovid.....	2.40	.90	.70
Riley.....	2.50	.90	.70
Victor.....	2.40	.90	.70
Watertown.....	2.50	.90	.70
Westphalia.....	2.50	.90	.70



## CRAWFORD COUNTY

Township	Lime-stone	Marl
All townships	\$2.50	\$1.00

## DELTA COUNTY

Township	Lime-stone
All townships	\$2.40

## DICKINSON COUNTY

Township	Lime-stone	Sugar Beet Refuse
All townships	\$2.60	\$1.30

## EATON COUNTY

Township	Lime-stone	Marl
Bellevue	\$2.40	\$0.90
Benton	2.40	.90
Brookfield	2.40	.90
Carmel	2.40	.90
Chester	2.40	.90
Delta	2.40	.90
Eaton	2.40	.90
Eaton Rapids	2.40	.90
Hamlin	2.40	.90
Kalamo	2.50	.90
Oneida	2.40	.90
Roxand	2.40	.90
Sunfield	2.50	.90
Vermontville	2.50	.90
Walton	2.50	.90
Windsor	2.40	.90

## EMMET COUNTY

Township	Lime-stone	Marl
Bear Creek	\$1.30	\$0.70
Bliss	1.70	.80
Carp Lake	1.60	.80
Center	1.60	.80
Cross Village	1.60	.70
Friendship	1.50	.80
Littlefield	1.50	.70
Little Traverse	1.40	.70
McKinley	1.50	.80
Maple River	1.50	.80
Pleasant View	1.60	.80
Readmond	1.60	.90
Resort	1.30	.70
Springvale	1.50	.70
Wa-Watam	1.90	----
West Traverse	1.50	.80

## GENESEE COUNTY

Township	Lime-stone	Marl	Sugar Beet Refuse
All townships	\$2.30	\$0.70	\$0.90

## GLADWIN COUNTY

Township	Lime-stone	Marl	Sugar Beet Refuse
Beaverton	\$2.40	\$0.90	\$1.00
Bentley	2.40	1.20	1.00
Billings	2.40	1.00	1.00
Bourret	2.40	.80	1.00
Buckeye	2.40	.90	1.00
Butman	2.40	.80	1.00
Clement	2.40	.80	1.00
Gladwin	2.40	.90	1.00
Grim	2.40	1.20	1.00
Grout	2.40	.80	1.00
Hay	2.40	1.00	1.00
Sage	2.40	.80	1.00
Secord	2.40	.90	1.00
Sheridan	2.40	.80	1.00
Sherman	2.40	.80	1.00
Tobacco	2.40	.90	1.00

## GOGEBIC COUNTY

Township	Lime-stone
All townships	\$2.60

## GRAND TRAVERSE COUNTY

Township	Marl
All townships	\$0.90

## GRATIOT COUNTY

Township	Lime-stone	Sugar Beet Refuse
Arcada	\$2.50	\$0.50
Bethany	2.50	.50
Elba	2.50	.90
Emerson	2.50	.60
Fulton	2.50	.80
Hamilton	2.50	.80
Lafayette	2.50	.80
Newark	2.50	.70
New Haven	2.50	.80
North Shade	2.50	.80
North Star	2.50	.80
Pine River	2.50	.50
Seville	2.50	.50
Sumner	2.50	.70
Washington	2.50	.80
Wheeler	2.50	.80

## HILLSDALE COUNTY

Township	Lime-stone	Marl
All townships-----	\$2.40	\$1.00

## HOUGHTON COUNTY

Township	Lime-stone
All townships-----	\$2.60

## HURON COUNTY

Township	Lime-stone	Marl	Sugar Beet Refuse
Bingham-----	\$2.60	\$1.20	\$1.20
Bloomfield-----	2.60	1.20	1.30
Brookfield-----	2.60	1.20	.90
Caseville-----	2.60	1.20	.90
Chandler-----	2.60	1.20	.90
Colfax-----	2.60	1.20	1.20
Dwight-----	2.60	1.20	1.30
Fairhaven-----	2.60	1.20	.90
Gore-----	2.60	1.20	1.30
Grant-----	2.60	1.20	.90
Hume-----	2.60	1.20	1.30
Huron-----	2.60	1.20	1.30
Lake-----	2.60	1.20	1.30
Lincoln-----	2.60	1.20	1.20
McKinley-----	2.60	1.20	.90
Meade-----	2.60	1.20	1.20
Oliver-----	2.60	1.20	.90
Paris-----	2.60	1.20	1.30
Port Austin-----	2.60	1.20	1.30
Rubicon-----	2.60	1.20	1.30
Sand Beach-----	2.60	1.20	1.30
Sebewaing-----	2.60	1.20	.90
Sheridan-----	2.60	1.20	1.20
Sherman-----	2.60	1.20	1.30
Sigel-----	2.60	1.20	1.30
Verona-----	2.60	1.20	1.20
Winsor-----	2.60	1.20	.90

## INGHAM COUNTY

Township	Lime-stone	Marl	Sugar Beet Refuse
Alaideon-----	\$2.10	\$0.70	\$0.70
Aurelius-----	1.90	.70	.70
Bunker Hill-----	1.90	.70	.70
Delhi-----	2.10	.70	.70
Ingham-----	2.00	.70	.70
Lansing-----	2.10	.70	.70
Leroy-----	2.10	.70	.70
Leslie-----	1.90	.70	.70
Locke-----	2.10	.70	.70
Meridian-----	2.10	.70	.70
Onondaga-----	1.90	.70	.70
Stockbridge-----	2.20	.70	.70
Vevay-----	2.00	.70	.70
Wheatfield-----	2.10	.70	.70
White Oak-----	2.30	.70	.70
Williamston-----	2.10	.70	.70

## IONIA COUNTY

Township	Lime-stone	Marl
Berlin-----	\$2.30	\$0.90
Boston-----	2.30	.80
Campbell-----	2.30	.90
Danby-----	2.30	.90
Easton-----	2.40	.80
Ionia-----	2.40	.90
Keene-----	2.40	.90
Lyons-----	2.40	.90
North Plains-----	2.40	.90
Odessa-----	2.30	.80
Orange-----	2.30	.90
Orleans-----	2.40	.90
Otisco-----	2.40	.90
Portland-----	2.30	.90
Ronald-----	2.40	.90
Sebewa-----	2.30	.90

## IOSCO COUNTY

Township	Marl
All townships-----	\$0.90

## IRON COUNTY

Township	Lime-stone
All townships-----	\$2.60

## ISABELLA COUNTY

Township	Lime-stone	Marl	Sugar Beet Refuse
Broomfield-----	\$2.40	\$0.90	\$0.90
Chippewa-----	2.40	.90	1.00
Coe-----	2.40	.90	.90
Coldwater-----	2.40	.90	1.00
Deerfield-----	2.40	.90	.90
Denver-----	2.40	.90	.90
Fremont-----	2.40	.90	.90
Gilmore-----	2.40	.90	1.00
Isabella-----	2.40	.90	.90
Lincoln-----	2.40	.90	.90
Nottawa-----	2.40	.90	.90
Rolland-----	2.40	.90	.90
Sherman-----	2.40	.90	.90
Union-----	2.40	.90	1.00
Vernon-----	2.40	.90	1.00
Wise-----	2.40	.90	1.00

## JACKSON COUNTY

Township	Lime-stone	Marl
Blackman	\$1.90	\$0.90
Columbia	2.00	.90
Concord	2.00	.90
Grass Lake	2.00	.90
Hanover	2.00	.90
Henrietta	1.90	.90
Leoni	2.00	.90
Liberty	2.00	.90
Napoleon	2.10	.90
Norvell	2.10	.90
Parma	2.00	.90
Pulaski	2.00	.90
Rives	1.90	.90
Sandstone	2.00	.90
Spring Arbor	2.00	.90
Springport	2.00	.90
Summit	2.00	.90
Tompkins	2.30	.90
Waterloo	2.00	.90

## KALAMAZOO COUNTY

Alamo	\$2.40	\$0.70
Brady	2.40	.60
Charleston	2.40	.90
Climax	2.40	.70
Comstock	2.40	.70
Cooper	2.40	.80
Kalamazoo	2.40	.80
Oshtemo	2.40	.90
Pavilion	2.40	.70
Portage	2.40	.70
Prairie Ronde	2.40	.70
Richland	2.40	.80
Ross	2.40	.80
Schoolcraft	2.40	.70
Texas	2.40	.80
Wakeshma	2.40	.80

## KALKASKA COUNTY

Blue Lake	\$2.20	\$0.90
Boardman	2.20	.90
Clearwater	2.20	.90
Cold Springs	2.20	.90
Excelsior	2.20	.90
Garfield	2.30	.90
Kalkaska	2.20	.90
Oliver	2.30	.90
Orange	2.20	.90
Rapid River	2.20	.90
Springfield	2.30	.90
Wilson	2.20	.90

## KENT COUNTY

Township	Lime-stone	Marl	Carbide Refuse
Ada	\$2.60	\$0.90	-----
Algoma	2.50	.90	-----
Alpine	2.40	.90	-----
Bowne	2.60	.80	-----
Byron	2.40	.80	\$1.00
Caledonia	2.60	.80	-----
Cannon	2.60	.80	-----
Cascade	2.60	.80	-----
Courtland	2.50	.90	-----
Gaines	2.60	.80	-----
Grand Rapids	2.60	.90	1.00
Grattan	2.60	.90	-----
Lowell	2.60	.90	-----
Nelson	2.50	.80	-----
Oakfield	2.60	.90	-----
Paris	2.60	.80	1.00
Plainfield	2.60	.80	-----
Solon	2.50	.80	-----
Sparta	2.60	.90	-----
Spencer	2.60	.80	-----
Tyrone	2.60	.80	-----
Vergennes	2.60	.90	-----
Walker	2.40	.90	-----
Wyoming	2.40	.80	1.00

## KEWEENAW COUNTY

Township	Lime-stone
All townships	\$2.60

## LAKE COUNTY

Township	Lime-stone	Marl	Paper Mill Refuse
Chase	\$2.60	\$0.90	\$1.30
Cherry Valley	2.60	.80	1.20
Dover	2.60	.90	1.20
Eden	2.60	.80	.90
Elk	2.60	.70	.90
Ellsworth	2.60	.90	1.30
Lake	2.60	.90	1.20
Newkirk	2.60	.90	1.10
Peacock	2.60	.90	1.00
Pinora	2.60	.90	1.30
Pleasant Plains	2.60	.80	1.30
Sauble	2.60	.80	1.00
Sweet Water	2.60	.80	1.00
Webber	2.60	.80	1.20
Yates	2.60	.70	1.30

## LAPEER COUNTY

Township	Lime-stone	Marl	Sugar Beet Refuse
Almont	\$2.40	\$0.70	
Arcadia	2.40	.70	
Attica	2.40	.70	
Burlington	2.40	.70	\$0.90
Burnside	2.40	.70	.90
Deerfield	2.40	.70	.90
Dryden	2.40	.70	
Elba	2.40	.70	
Goodland	2.40	.70	
Hadley	2.40	.70	
Imlay	2.40	.70	
Lapeer	2.40	.70	
Marathon	2.40	.70	
Mayfield	2.40	.70	
Metamora	2.40	.70	
North Branch	2.40	.70	
Oregon	2.40	.70	
Rich	2.40	.70	.90

## LEELANAU COUNTY

Township	Lime-stone	Marl
All townships	\$2.60	\$0.70

## LENAWEE COUNTY

Township	Lime-stone
Adrian	\$1.90
Blissfield	1.70
Cambridge	2.00
Clinton	1.70
Deerfield	1.60
Dover	2.00
Fairfield	1.90
Franklin	1.90
Hudson	2.10
Macon	1.70
Madison	1.90
Medina	2.10
Ogden	1.70
Palmyra	1.70
Raisin	1.70
Ridgeway	1.70
Riga	1.70
Rollin	2.10
Rome	1.90
Seneca	2.00
Tecumseh	1.70
Woodstock	2.10

## LIVINGSTON COUNTY

Township	Lime-stone	Marl
Brighton	\$2.30	\$1.00
Cohoctah	2.40	1.00
Conway	2.40	1.00
Deerfield	2.40	1.00
Genoa	2.30	1.00
Green Oak	2.30	1.00
Hamburg	2.40	1.00
Handy	2.30	1.00
Hartland	2.30	1.00
Howell	2.30	1.00
Iosco	2.40	1.00
Marion	2.30	1.00
Oceola	2.30	1.00
Putnam	2.30	1.00
Tyrone	2.30	1.00
Unadilla	2.30	1.00

## LUCE COUNTY

Township	Lime-stone
All townships	\$2.60

## MACKINAC COUNTY

All townships	\$2.60
---------------	--------

## MACOMB COUNTY

Township	Lime-stone	Marl	Sugar Beet Refuse
Armada	\$2.30		\$1.20
Bruce	2.30	\$1.00	1.20
Chesterfield	2.10		1.00
Clinton	2.00		1.00
Erin	1.80		.90
Harrison	2.00		.90
Lake	1.90		.90
Lenox	2.30		1.20
Macomb	2.10		1.00
Ray	2.30		1.20
Richmond	2.30		1.10
Shelby	2.20	1.00	1.00
Sterling	2.00		1.00
Warren	1.60		.80
Washington	2.20	1.00	1.10

## MANISTEE COUNTY

Township	Lime-stone	Marl	Paper Mill Refuse
Arcadia	\$2.60	\$1.00	\$1.00
Bear Lake	2.60	1.00	1.00
Brown	2.60	1.00	.90



## MANISTEE COUNTY—Continued

Township	Lime-stone	Marl	Paper Mill Refuse
Cleon	\$2.60	\$1.00	\$1.20
Dickson	2.60	1.00	1.30
Filer	2.60	1.00	.80
Manistee	2.60	1.00	.90
Maple Grove	2.60	1.00	1.20
Marilla	2.60	1.00	1.20
Norman	2.60	1.00	1.30
Onokama	2.60	1.00	.90
Pleasanton	2.60	1.00	1.20
Springdale	2.60	1.00	1.20
Stronach	2.60	1.00	.90

## MARQUETTE COUNTY

Township	Lime-stone
All townships	\$2.60

## MASON COUNTY

Township	Lime-stone	Marl	Paper Mill Refuse
Amber	\$2.60	\$0.80	\$1.10
Branch	2.60	.70	1.20
Custer	2.60	.80	1.10
Eden	2.60	.80	1.20
Freesoil	2.60	.80	1.00
Grant	2.60	.80	.90
Hamlin	2.60	.80	1.10
Logan	2.60	.80	1.30
Meade	2.60	.80	1.00
Pere Marquette	2.60	.70	1.30
Riverton	2.60	.80	1.20
Sheridan	2.60	.80	1.10
Sherman	2.60	.80	1.00
Summit	2.60	.80	1.30
Victory	2.60	.80	1.00

## MECOSTA COUNTY

Township	Lime-stone	Marl
Aetna	\$2.40	\$0.90
Austin	2.40	.70
Big Rapids	2.40	.90
Chippewa	2.40	.90
Colfax	2.40	.90
Deerfield	2.40	.80
Fork	2.40	.90
Grant	2.40	.90
Green	2.40	.90
Hinton	2.40	.80
Martiny	2.40	.90
Mecosta	2.40	.90

## MECOSTA COUNTY—Continued

Township	Lime-stone	Marl
Millbrook	\$2.40	\$0.90
Morton	2.40	.70
Sheridan	2.40	.90
Wheatland	2.40	.90

## MENOMINEE COUNTY

Township	Lime-stone
All townships	\$2.60

## MIDLAND COUNTY

Township	Lime-stone	Marl	Sugar Beet Refuse
Edenville	\$2.40	\$1.20	\$1.00
Geneva	2.40	1.20	.90
Greendale	2.40	1.20	.90
Homer	2.40	1.20	.90
Hope	2.40	1.20	1.00
Ingersoll	2.40	1.20	1.00
Jasper	2.40	1.20	.70
Jerome	2.40	1.20	1.00
Larkin	2.40	1.20	.90
Lee	2.40	1.20	.90
Lincoln	2.40	1.20	1.00
Midland	2.40	1.20	.90
Mills	2.40	1.20	1.00
Mount Haley	2.40	1.20	.90
Porter	2.40	1.20	.80
Warren	2.40	1.20	1.00

## MISSAUKEE COUNTY

Township	Lime-stone	Marl	Sugar Beet Refuse
Aetna	\$2.60	\$1.00	\$1.30
Bloomfield	2.60	1.00	1.30
Butterfield	2.60	.90	1.30
Caldwell	2.60	.90	1.30
Clam Union	2.60	1.00	1.30
Enterprise	2.60	.80	1.30
Forest	2.60	1.00	1.30
Holland	2.60	1.00	1.30
Lake	2.60	.80	1.30
Norwich	2.60	1.00	1.30
Pioneer	2.60	1.00	1.30
Reeder	2.60	.80	1.30
Richland	2.60	.90	1.30
Riverside	2.60	.90	1.30
West Branch	2.60	.80	1.30

## MONROE COUNTY

Township	Lime-stone
Ash	\$1.30
Bedford	1.40
Berlin	1.30
Dundee	1.40
Erie	1.40
Exeter	1.30
Frenchtown	1.20
Ida	1.30
La Salle	1.30
London	1.40
Milan	1.60
Monroetown	1.20
Raisinville	1.30
Summerfield	1.40
Whiteford	1.60

## MUSKEGON COUNTY—Continued

Township	Lime-stone	Marl	Paper Mill Refuse
Dalton	\$2.60	\$0.90	\$0.90
Egelston	2.60	.90	.90
Fruitland	2.60	.90	.90
Fruitport	2.60	.90	.90
Holton	2.60	.80	1.10
Laketon	2.60	.90	.80
Montague	2.60	.90	1.00
Moorland	2.60	.90	1.00
Muskegon	2.60	.90	.90
Norton	2.60	.90	.80
Ravenna	2.60	.90	1.00
Sullivan	2.60	.90	.90
Whitehall	2.60	.90	1.00
White River	2.60	.90	1.10

## MONTCALM COUNTY

Township	Lime-stone	Marl	Sugar Beet Refuse
Belvidere	\$2.40	\$0.90	\$1.00
Bloomer	2.40	1.00	1.00
Bushnell	2.40	.90	1.10
Cato	2.40	.90	1.00
Crystal	2.40	.90	1.00
Day	2.40	.90	1.00
Douglass	2.40	.90	1.00
Eureka	2.40	.90	
Evergreen	2.40	.90	1.00
Fairplain	2.40	1.00	1.20
Ferris	2.40	1.00	.80
Home	2.40	.90	.80
Maple Valley	2.40	.90	1.20
Montcalm	2.40	.90	1.20
Pierson	2.40	1.00	1.20
Pine	2.40	.80	1.20
Reynolds	2.40	1.00	1.20
Richland	2.40	.90	.80
Sidney	2.40	.90	1.10
Winfield	2.40	1.00	1.20

## MONTMORENCY COUNTY

Township	Lime-stone	Marl
All townships	\$1.60	\$0.80

## MUSKEGON COUNTY

Township	Lime-stone	Marl	Paper Mill Refuse
Blue Lake	\$2.60	\$0.90	\$1.00
Casnovia	2.60	.80	1.00
Cedar Creek	2.60	.90	.90

## NEWAYGO COUNTY

Township	Lime-stone	Marl
Ashland	\$2.50	\$0.70
Barton	2.60	.80
Beaver	2.60	.80
Big Prairie	2.60	.80
Bridgeton	2.60	.80
Brooks	2.40	.80
Croton	2.60	.80
Dayton	2.50	.60
Denver	2.60	.70
Ensley	2.60	.70
Everett	2.60	.70
Garfield	2.40	.70
Goodwell	2.60	.80
Grant	2.50	.80
Home	2.60	.90
Lilley	2.40	.90
Lincoln	2.50	.70
Merrill	2.40	.90
Monroe	2.50	.90
Norwich	2.60	.80
Sheridan	2.50	.60
Sherman	2.50	.70
Troy	2.60	.90
Wilcox	2.50	.70

## OAKLAND COUNTY

Township	Lime-stone
Addison	\$2.40
Avon	2.30
Bloomfield	2.30
Brandon	2.40
Commerce	2.30
Farmington	2.30
Groveland	2.40
Highland	2.30
Holly	2.40

## OAKLAND COUNTY—Continued

Township	Lime-stone
Independence .....	\$2.30
Lyon .....	2.30
Milford .....	2.30
Novi .....	2.30
Oakland .....	2.30
Orion .....	2.30
Oxford .....	2.40
Pontiac .....	2.30
Rose .....	2.30
Royal Oak .....	2.30
Southfield .....	2.30
Springfield .....	2.30
Troy .....	2.30
Waterford .....	2.30
West Bloomfield .....	2.30
White Lake .....	2.30

## OCEANA COUNTY

Township	Lime-stone	Marl
Benona .....	\$2.50	\$0.80
Claybanks .....	2.50	.80
Colfax .....	2.50	.90
Crystal .....	2.50	.80
Elbridge .....	2.50	.80
Ferry .....	2.50	.80
Golden .....	2.50	.80
Grant .....	2.50	.80
Greenwood .....	2.50	.80
Hart .....	2.50	.80
Leavitt .....	2.50	.80
Newfield .....	2.50	.90
Otto .....	2.50	.80
Pentwater .....	2.50	.80
Shelby .....	2.50	.90
Weare .....	2.50	.90

## OGEMAW COUNTY

Township	Marl
Churchill .....	\$1.00
Cumming .....	.90
Edwards .....	1.00
Foster .....	.90
Goodar .....	.90
Hill .....	.90
Horton .....	1.00
Klacking .....	.90
Logan .....	.80
Mills .....	1.10
Ogemaw .....	1.00
Richland .....	1.00
Rose .....	.80
West Branch .....	1.00

## ONTONAGON COUNTY

Township	Lime-stone	Paper Mill Refuse	Carbide Refuse
Bergland .....	\$2.60	\$1.20	\$1.60
Bohemia .....	2.60	1.00	1.60
Greenland .....	2.60	1.00	1.60
Haight .....	2.60	1.30	1.60
Interior .....	2.60	1.30	1.60
McMillan .....	2.60	1.20	1.60
Matchwood .....	2.60	1.20	1.60
Ontonagon .....	2.60	.90	1.60
Rockland .....	2.60	.90	1.60
Stannard .....	2.60	1.20	1.60

## OSCEOLA COUNTY

Township	Lime-stone	Marl
All townships .....	\$2.50	\$0.90

## OSCODA COUNTY

Township	Marl
Big Creek .....	\$1.00
Clinton .....	.80
Comins .....	.70
Elmer .....	.80
Greenwood .....	1.00
Mentor .....	1.00

## OTSEGO COUNTY

Township	Lime-stone	Marl
All townships .....	\$2.30	\$1.00

## OTTAWA COUNTY

Township	Lime-stone	Marl
Allendale .....	\$2.30	\$0.80
Blendon .....	2.20	.80
Chester .....	2.40	.80
Crockery .....	2.50	.80
Georgetown .....	2.30	.80
Grand Haven .....	2.60	.70
Holland .....	2.20	.90
Jamestown .....	2.30	.70
Olive .....	2.20	.90
Park .....	2.30	.90
Polkton .....	2.50	.90
Port Sheldon .....	2.30	.90
Robinson .....	2.30	.80
Spring Lake .....	2.60	.80
Tallmadge .....	2.40	.80
Wright .....	2.40	.90
Zeeland .....	2.20	.80

## PRESQUE ISLE COUNTY

Township	Lime-stone
Allis	\$1.00
Bearinger	.80
Balknap	.60
Bismarck	.70
Case	.80
Krakow	.80
Metz	.70
Moltke	.60
North Allis	1.00
Ocqueoc	.70
Posen	.80
Presque Isle	.90
Pulawski	.90
Rogers	.50

## ROSCOMMON COUNTY

Township	Lime-stone	Marl	Sugar Beet Refuse	Wood Ashes
All townships	\$2.60	\$1.10	\$1.30	\$1.00

## SAGINAW COUNTY

Township	Lime-stone	Sugar Beet Refuse
All townships	\$2.40	\$0.90

## ST. CLAIR COUNTY

Berlin	\$2.50	
Brockway	2.50	\$1.20
Burtchville	2.50	
Casco*	2.40	
China	2.40	
Clay	2.40	
Clyde	2.50	1.20
Columbus	2.40	
Cottrellville	2.40	
East China	2.40	
Emmett	2.50	1.30
Fort Gratiot	2.50	
Grant	2.50	1.00
Greenwood	2.50	1.10
Ira	2.40	
Kenockee	2.50	1.20
Kimball	2.50	1.30
Lynn	2.50	1.30
Mussey	2.50	
Port Huron	2.50	
Riley	2.50	
St. Clair	2.40	
Wales	2.50	

## ST. JOSEPH COUNTY

Township	Lime-stone	Marl
Burr Oak	\$2.50	\$1.00
Coloñ	2.50	.90
Constantine	2.50	1.00
Fabius	2.50	1.00
Fawn River	2.50	1.00
Florence	2.50	1.00
Flowerfield	2.50	1.00
Leonidas	2.50	1.00
Lockport	2.50	.70
Mendon	2.50	.70
Mottville	2.50	1.00
Nottawa	2.50	.60
Park	2.50	.70
Sherman	2.50	1.10
Strugis	2.50	.90
White Pigeon	2.50	.90

## SANILAC COUNTY

Township	Lime-stone	Marl	Sugar Beet Refuse
All townships	\$2.60	\$1.00	\$1.00

## SCHOOLCRAFT COUNTY

Township	Lime-stone
All townships	\$2.10

## SHIAWASSEE COUNTY

Township	Lime-stone	Sugar Beet Refuse
Antrim	\$2.30	\$0.80
Bennington	2.40	.70
Burns	2.30	.80
Caledonia	2.40	.70
Fairfield	2.40	.80
Hazelton	2.40	.80
Middlebury	2.40	.70
New Haven	2.40	.70
Owosso	2.40	.70
Perry	2.30	.80
Rush	2.40	.70
Sciota	2.40	.80
Shiawassee	2.40	.70
Venice	2.40	.70
Vernon	2.40	.80
Woodhull	2.30	.90



## TUSCOLA COUNTY

Township	Lime- stone	Marl	Sugar Beet Refuse
All townships	\$2.40	\$1.20	\$0.90

## VAN BUREN COUNTY

Township	Lime- stone	Marl
Almena	\$2.20	\$0.90
Antwerp	2.30	.90
Arlington	2.20	.90
Bangor	2.20	.90
Bloomington	2.20	.90
Columbia	2.20	.90
Covert	2.30	.90
Decatur	2.40	.90
Geneva	2.10	.90
Hamilton	2.30	.90
Hartford	2.20	.90
Keeler	2.40	.90
Lawrence	2.20	.90
Paw Paw	2.20	.90
Pine Grove	2.30	.90
Porter	2.30	.90
South Haven	2.10	.90
Waverly	2.20	.90

## WASHTENAW COUNTY

Ann Arbor	\$2.00	\$1.00
Augusta	1.70	1.00
Bridgewater	2.00	1.00
Dexter	2.30	1.00
Freedom	2.20	1.00
Lima	2.30	1.00
Lodi	2.00	1.00
Lyndon	2.30	1.00
Manchester	2.10	1.00
Northfield	2.30	1.00
Pittsfield	1.80	1.00
Salem	2.00	1.00

## WASHTENAW COUNTY—Cont.

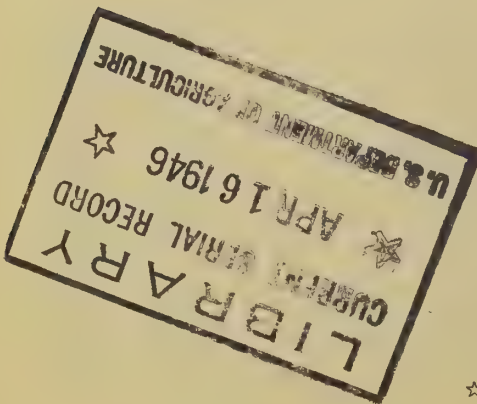
Township	Lime- stone	Marl
Saline	\$2.00	\$1.00
Scio	2.10	1.00
Sharon	2.30	1.00
Superior	1.70	1.00
Sylvan	2.30	1.00
Webster	2.30	1.00
York	1.70	1.00
Ypsilanti	1.70	1.00

## WAYNE COUNTY

Township	Lime- stone
Brownstown	\$1.40
Canton	1.60
Dearborn	1.40
Ecorse	1.30
Gratiot	
Grosse Isle	1.30
Grosse Point	
Huron	1.50
Livonia	1.60
Monguagon	1.30
Nankin	1.50
Northville	1.70
Plymouth	1.60
Redford	1.60
Romulus	1.60
Sumpter	1.70
Taylor	1.50
Van Buren	1.70

## WEXFORD COUNTY

Township	Lime- stone	Marl
All townships	\$2.60	\$0.90



## UNITED STATES DEPARTMENT OF AGRICULTURE

## PRODUCTION AND MARKETING ADMINISTRATION

## FIELD SERVICE BRANCH

Washington, D. C.

1946 AGRICULTURE CONSERVATION PROGRAM

NORTH CENTRAL REGION

## MINNESOTA COMMITTEEMAN'S PRACTICE HANDBOOK

The 1946 farm program is designed to assist the farmers of Minnesota to the fullest possible extent in protecting their soils against damage from erosion and loss of fertility.

The county committee will designate those practices which will be approved for payment in the county in order that the available funds will be used most effectively to bring about increased conservation. Written approval by the county committee must be obtained for each practice to be performed on any individual's farm, prior to the carrying out of such practice except that practices performed before April 1, 1946, may be approved retroactively by the county committee.

## A. FUNDS AVAILABLE FOR CONSERVATION PRACTICES ON INDIVIDUAL FARMS

The county and community committeemen will determine for each farm, on the basis of the conservation needs and farmer's intentions, maximum payments for each practice approved for the farm. The sum of the maximum payments approved cannot exceed the county limits approved for this purpose by the State committee. Official notice of such approval will be forwarded to the operator and other parties interested in the operation of the farm.

## B. CONSERVATION PRACTICES

The practices available for 1946 are those which are most needed in order to conserve and improve soil fertility, improve pasture land, prevent wind and water erosion, and promote conservation and better utilization of water. Assistance will be available for carrying out the following practices during the program year January 1, 1946, through December 31, 1946. To qualify for payment, each practice must be carried out in accordance with the specifications for that practice and be in keeping with good farming practices for the locality.

Except as stated below, the total extent of any practice performed shall be reduced for purposes of payment by the percentage of the total cost of the practice which the county committee determines was furnished by a State or Federal agency. The extent of any practice shall not be reduced because a portion of the cost is represented by materials or services furnished by the F. S. B., or equipment furnished by S. C. S., or materials or services furnished by an agency of a State or political subdivision thereof to another agency or political subdivision of the same State, or trees purchased from a Clark-McNary Cooperative State Nursery.

(1) **Fertilizers.**—Application of superphosphate, defluorinated phosphate rock, or potash to: (1) **pastures**; (2) **new seedings** of biennial or perennial legumes, or perennial grasses, with or without a nurse crop; (3) **old stands** of biennial or perennial legumes, or perennial grasses, provided the acreage on which such applications are made is not devoted to, cultivated for, or plowed for any other crop prior too January 1, 1947; and (4) **green manure crops** in orchards.

(a) Superphosphate or defluorinated phosphate rock.—\$4.00 per 100 pounds of available  $P_2O_5$ .

(b) Potash.—\$2.50 per 100 pounds of available  $K_2O$ .

(c) 100 lbs. of 0-9-27-----	\$1.00	(g) 100 lbs. of 2-16-8-----	\$0.80
(d) 100 lbs. of 0-10-20-----	.90	(r) 100 lbs. of 3-19-18-----	1.00
(e) 100 lbs. of 0-12-12-----	.80	(s) 100 lbs. of 3-12-12-----	.80
(f) 100 lbs. of 0-12-24-----	1.10	(t) 100 lbs. of 3-18-9-----	.90
(g) 100 lbs. of 0-12-36-----	1.30	(u) 100 lbs. of 4-10-6-----	.50
(h) 100 lbs. of 0-14-7-----	.70	(v) 100 lbs. of 4-12-4-----	.60
(i) 100 lbs. of 0-14-14-----	.90	(w) 100 lbs. of 4-16-0-----	.60
(j) 100 lbs. of 0-18-0-----	.70	(x) 100 lbs. of 4-16-16-----	1.00
(k) 100 lbs. of 0-19-0-----	.80	(y) 100 lbs. of 4-24-12-----	1.30
(l) 100 lbs. of 0-20-0-----	.80	(z) 100 lbs. of 6-12-18-----	.90
(m) 100 lbs. of 0-20-10-----	1.00	(aa) 100 lbs. of 8-8-8-----	.50
(n) 100 lbs. of 0-20-20-----	1.30	(bb) 100 lbs. of 8-16-12-----	.90
(o) 100 lbs. of 0-30-15-----	1.60	(cc) 100 lbs. of 10-6-4-----	.30
(p) 100 lbs. of 2-12-6-----	.60		

(2) **Liming materials.**—(Credit rates are contained in NCR-46-1, Supplement 1.) Application of the following materials:

(a) One ton of agricultural ground limestone containing at least 80 percent calcium carbonate equivalent, and ground sufficiently fine so that 80 percent, including all of the finer particles obtained in the grinding process, will pass through an eight-mesh sieve. The moisture content at the time of shipment must not exceed 8 percent. The calcium carbonate equivalent and the percent passing through a U. S. Standard No. 8 sieve must be at least 80 and one or both must be greater than 80 so that the multiplication of the percent of calcium carbonate equivalent by the percent of material passing through a U. S. Standard No. 8 sieve will be equal to or in excess of 0.72.

(b) One ton of calcium carbide refuse lime containing at least 85 percent calcium carbonate equivalent and testing not more than 35 percent moisture at the shipping point.

(c) One cubic yard of marl containing at least 70 percent calcium carbonate equivalent.

(d) One cubic yard of water-softening process lime containing at least 70 percent calcium carbonate equivalent.

(e) One ton of eggshells containing at least 80 percent calcium carbonate equivalent.

(f) One ton of hydrated lime.

(g) One ton of blast furnace slag containing at least 80 percent calcium carbonate equivalent and ground sufficiently fine so that 80 percent will pass through a U. S. Standard No. 8 sieve.

A correspondingly greater amount of material must be required if the material does not meet the specifications.

(3) **Gypsum.**—(Credit rates are contained in NCR-46-1, Supplement 1.) Application of gypsum containing at least 18 percent sulphur or its equivalent.

(4) **Green manure crops.**—Disking or plowing under a good stand and a good growth of the following crops. If the land is subject to erosion and the green manure is turned under in the fall, the land must be protected by a winter cover crop.—\$1.50 per acre.



- (a) 1945 fall seedings of winter rye.
- (b) Buckwheat.
- (c) Sweet clover.
- (d) Alsike or red clover turned under in the fall of 1946.

(5) **Protecting summer fallow.**—Protecting summer fallowed acreage from wind and water erosion by contour listing, pit cultivation, cultivation with a shovel type implement such as a duck foot or field cultivator, cultivation with a rod weeder, or any other implement approved by the county committee, and incorporating stubble and straw into the surface soil. Cultivations must be started by the date set by the State Committee and must be continued through the season in such a manner as to prevent weed growth and secure a maximum amount of moisture conservation. No credit will be given for this practice for any acreage for which credit is given under Practice (10), Field Stripcropping Not On The Contour. No credit will be given if the acreage to be fallowed has been burned.—**\$1.00 per acre.**

(6) **Weed eradication on cropland.**—Eradication of the following weeds by the use of chemicals or clean tillage: Bindweed, Canada thistle, Austrian field cress, perennial pepper grass, leafy spurge, Russian knapweed, perennial sow thistle, or quack grass. Payment for this practice may be given only on farms where approved weed control measures are being carried out on all adjacent infested farms or contiguous land, where the infestation is limited to a single farm, or where the county committee determines there is no likelihood of reinfestation from adjacent or contiguous land. No crop may be taken from the land but weeds may be cut and removed before tillage is begun.

(a) For sodium chlorate or other chemicals approved by the State committee (excluding borax).—**\$0.05 per pound.**

(b) For borax.—**\$0.02 per pound.**

(c) For continuous clean tillage (except quack grass).—**\$10.00 per acre.**

(d) For continuous clean tillage of quack grass in the following counties: Kittson, West Polk, Norman, Clay, Wilkin, and Marshall County in the townships west of East Park, New Maine, Newfolden and New Solum.—**\$2.50 per acre.**

(e) For continuous clean tillage of quack grass in all other areas.—**\$5.00 per acre.**

(7) **Contour stripcropping.**—Growing alternate strips of intertilled crops with sown, close-drilled, or sod crops or alternate strips of small grain crops with sod crops, on the contour, provided: (1) the strips are approximately the same width; (2) the strips are not less than 3 rods nor more than 9 rods in width; (3) the crop stubble is left standing or a good stand of a winter cover crop is obtained; (4) buffer strips are at least 1 rod in width; and (5) contour lines are laid out with an approved instrument. When it is necessary, because of rotations, to have two adjacent strips of sown, close-drilled, or sod crops, credit may be given for the entire field.—**\$1.50 per acre.**

(8) **Contouring intertilled crops.**—Contour farming of intertilled crops, provided the crop stubble is left standing or a good stand of a winter cover crop is obtained. If there is danger of erosion in waterways, such waterways must be permanently established in sod. Contour lines must be laid out with an approved instrument. No credit will be given for this practice for any acreage for which credit is given under Practice (7), Contour Stripcropping.—**\$1.50 per acre.**



(9) **Contouring close-sown crops.**—Contour farming of small grain crops, sorghums, millet, or soybeans. All tillage operations, including plowing, must be made on the contour. The seeding must be made with a drill. If there is danger of erosion in waterways, such waterways must be permanently established in sod. The contour lines must be laid out with an approved instrument. No credit may be given for this practice for any acreage for which credit is given under Practice (7), Contour Stripcropping.—**\$0.50 per acre.**

(10) **Field stripcropping not on the contour.**—Growing alternate strips of intertilled crops or small grain crops with grass or hay crops, or alternate strips of summer fallow with small grain crops, provided: (1) the strips are approximately parallel and are laid out at right angles to the prevailing winds or in a continuous “S” so that the winds cannot blow parallel to the rows; (2) the strips are not less than 2 rods nor more than 20 rods in width; and (3) the crop stubble is left standing or a good stand of a winter cover crop is obtained.

(a) Where fallow strips are not used.—**\$0.50 per acre.**

(b) Where fallow strips are used.—**\$0.75 per acre.**

(11) **Establishing Sod Waterways.**—Establishing a permanent sod waterway on any cropland where a permanent vegetative cover is necessary in a waterway channel or terrace outlet, or in cultivated orchards. The channel of the waterway must be sufficiently wide to carry the run-off from the drainage area and must be at least 1 rod in width at the narrowest point. The channel must contain a good stand and a good growth of perennial grasses.—**\$0.75 per 1,000 square feet.**

(12) **Terraces.**—Construction of terraces with a minimum settled ridge cross-section of at least 10 square feet above the original ground level on slopes of not more than 10 percent. Proper outlets must be provided and the terraces and outlets must be constructed to conform with the minimum specifications required by the State Committee.—**\$1.50 per 100 linear feet.**

(13) **Construction or Enlargement of Open Farm Drainage Ditches.**—Construction or enlargement of farm ditches, excluding those constructed or maintained by a legal drainage system, including lateral and lead ditches, for which proper outlets have been provided. Adequate provision must be made for the entrance of water into and out of the ditches, and the ditches must have sufficient capacity to remove the normal excess surface water. Credit will not be given for material moved in cleaning the ditch.—**\$0.08 per cubic yard, but not in excess of \$8.00 per 100 linear feet.**

(14) **Excavation of Ditches for Tile Drainage.**—Excavation of ditches for tile drainage, provided the size of tile, outlets, depth and gradient meet the following minimum specifications: (1) the tile size must be adequate to remove the normal excess water; (2) the minimum grade shall be 0.1 foot per 100 feet; (3) the minimum depth of the tile line shall be 3 feet; and (4) properly protected outlets of sufficient size are provided. No part of the tile lines may be used for any purpose other than the draining of agricultural land.—**\$0.40 per rod of ditch excavated.**

(15) **Establishing Permanent Cover on Steep Slopes.** Seeding brome grass on steep slopes to prevent erosion. A minimum seeding of 15 pounds to the acre must be made. Any acreage on which a

permanent cover is established must not be used for any purpose other than pasture.—**\$0.15 per pound.**

(16) **Complete pasture establishment.**—Complete pasture establishment on land no longer suited for cultivation by carrying out all of the following: (1) Preparing a satisfactory seedbed; (2) applying the necessary amounts of lime and fertilizer; (3) making a seeding of one of the mixtures listed below; and (4) deferring grazing until a good stand has been established, controlling grazing during the balance of the season, and removing the stock early enough in the fall to permit a good growth before winter. Credit for the lime and fertilizer applied may be given under Practices (1) or (2).

(a) Seeding at least 8 pounds of reeds canary grass.—**\$2.00 per acre.**

(b) Seeding at least 18 pounds of a mixture of bromegrass, red clover, and alsike. Not more than 8 pounds of the mixture may be bromegrass.—**\$3.50 per acre.**

(c) Seeding at least 14 pounds of a mixture of timothy, sweet clover, and alsike. At least 4 pounds of the mixture must be alsike.—**\$2.00 per acre.**

(17) **Reseeding pastures.**—Reseeding land designated as noncrop open pasture or land cleared for pasture under Practice (23) by making a full seeding of the grasses and legumes listed below. The land must be disked, springtoothed, or plowed, sufficiently to prepare a good seed bed. Lime and fertilizer must be applied as needed. Credit for the lime and fertilizer applied may be given under Practices (1) or (2). Mixtures of annuals and biennials, or straight seedings except for reeds canary grass, cannot be approved. However, payment may be made for annuals and biennials used in a mixture with perennials.

(a) Reeds canary grass.—**\$0.25 per pound.**

(b) Red clover, alsike, and alfalfa.—**\$0.25 per pound.**

(c) Bromegrass seeded only with a biennial or perennial legume.—**\$0.15 per pound.**

(d) Redtop or sweet clover.—**\$0.15 per pound.**

(e) Timothy seeded only with redtop or sweet clover.—**\$0.07 per pound.**

(f) For preparation of the seed bed (except when used in connection with the pasture clearing practice).—**\$0.75 per acre.**

(18) **Mulching materials.**—Application of straw, hay or shredded corn stalks to commercial orchards, vineyards, commercial vegetable land, potato land, strawberries, and other small fruits.—**\$4.00 per ton.**

(19) **Harvesting hayseed.**—Harvesting for seed an acreage of alfalfa, red clover, and alsike. Credit will not be given for more than 25 acres per farm.—**\$3.50 per acre.**

(20) **Tree planting.**—Tree planting for forestry purposes, gully control, or windbreak, in accordance with good tree culture. The new plantings must be protected from fire and grazing. The following species of trees may be approved provided they are adapted to the particular soil type, climatic conditions, moisture conditions, and site: Red pine, jack pine, white spruce, eastern white pine, black spruce, tamarack, northern white cedar, sugar maple, yellow birch, basswood, American elm, green ash, white ash, white pine, Norway spruce, cottonwood, box elder, red oak, yellow poplar, Chinese elm, and willow.

(a) For forest purposes.—**\$1.00 per 100 trees, but not in excess of \$7.50 per acre.**

(b) For gully control.—**\$1.00 per 100 trees, but not in excess of \$7.50 per acre.**

(c) For windbreak.—**\$2.00 per 100 trees.**

(21) **Maintaining a stand of trees in a windbreak.**—Maintaining a good stand of at least 250 trees per acre by cultivating sufficiently to control other vegetation, protecting from fire and grazing and re-planting if necessary. This practice is applicable only on stands planted between January 1, 1941 and January 1, 1946.—**\$3.00 per acre.**

#### CUT-OVER AREA PRACTICES

The cut-over area includes the following counties: Aitken, Anoka, Becker, East Polk, Beltrami, Benton, Carlton, Cass, Chisago, Clearwater, Crow Wing, Douglas, Hubbard, Isanti, Itasca, Kanabec, Koochiching, Lake, Lake of the Woods, Mahnoman, Mille Lacs, Morrison, Otter Tail, Pennington, Pine, Ramsey, Red Lake, Roseau, St. Louis, Sherburne, Todd, and Wadena.

(22) **Clearing Land for Tillage on Farms with Less than 60 Acres of Cropland.**—Clearing land and preparing it for growing a crop by removing all loose stones, stumps, underbrush, forest tree growth, and leveling hummocks. Approval must not be given where the land to be cleared is now supporting a stand of merchantable timber, where it is clear that definite erosion hazards will result, where it appears that it would be necessary to remove large quantities of stones annually, where drainage problems will not be corrected before the end of the program year, or where the soils of the land to be cleared are not equal to or superior to the soil now under cultivation on the farm. No credit will be given if the estimated cost of clearing is less than \$20.00 or if the land is not plowed prior to January 1, 1947.—**\$10.00 per acre.**

(23) **Clearing Land for Pasture.**—Clearing land for the establishment of pasture by uprooting and removing all shrubs and forest tree growth, leveling hummocks, carrying out an adequate system of mowing and removing loose stones. Tree growth sufficient to provide shade for livestock may be left in the pasture area. Approval must not be given unless the county committee determines that the pasture when established will be capable of carrying at least one animal unit for each two acres during a pasture season of at least four months. Credit will not be given unless liming materials, fertilizer, and seed are applied in necessary amounts. Credit for these materials may be given under Practices (1), (2) or (17). No credit for this practice may be given if the estimated cost of the clearing is less than \$10.00 per acre.—**\$5.00 per acre.**

#### C. POOLING AGREEMENTS

Producers in any local area may agree in writing, with the approval of the County and State Committees, to cooperatively perform the following practice on one or more of the farms operated by such producers, provided all of their farms are benefited by the performance of such practice: Practice (13), Construction or Enlargement of Open Farm Drainage Ditches. Instructions for carrying out a Pooling Agreement are contained in NCR-46-2.

ing  
tly  
re-  
nds  
per

aka,  
car-  
dec,  
or-  
St.

60

g a  
tee  
ere  
le  
ere  
of  
ore  
ed  
he  
es

—

le  
st  
f  
le  
st  
re  
it  
s.  
d  
e  
e  
e

l  
e  
e  
e



U.S. DEPARTMENT OF AGRICULTURE

☆ APR 16 1946 ☆

CURRENT SERIAL RECORD

LIBRARY

erve  
#2  
15B

UNITED STATES DEPARTMENT OF AGRICULTURE  
PRODUCTION AND MARKETING ADMINISTRATION  
FIELD SERVICE BRANCH—WASHINGTON, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM NORTH CENTRAL REGION

SUPPLEMENT 1 TO MINNESOTA COMMITTEEMAN'S  
PRACTICE HANDBOOK

1946 CREDIT RATES FOR LIMING MATERIALS  
AND GYPSUM

Following are the liming materials for which the credit rates are the same throughout the State:

Type of material	Credit rate
Water-softening process lime	\$0.80 per cu. yd.
Eggshells	1.00 per ton.
Hydrated lime	4.00 per ton.

The credit rate for gypsum is 50 cents per 100 pounds in the following counties: Becker, Beltrami, Cass, Clearwater, Hubbard, Itasca, Koochiching, Lake of the Woods, and Wadena.

The following are the credit rates for the other liming materials for which credit will be given in your county. The rates for limestone, blast furnace slag, and carbide refuse are on a ton basis and the rates for marl, paper mill refuse and sugarbeet refuse are on a cubic yard basis.

AITKIN COUNTY

Township	Lime-stone	Paper mill refuse
All townships	\$2.60	\$1.30

ANOKA COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Anoka	\$1.40	Columbus	\$1.60	Oak Grove	\$1.70
Bethel	1.70	Fridley	1.40	Ramsey	1.50
Blaine	1.40	Grow	1.50	St. Francis	1.90
Burns	1.80	Ham Lake	1.50		
Centerville	1.40	Linwood	1.80		

BENTON COUNTY

Township	Limestone
All townships	\$2.40

CARLTON COUNTY

Township	Lime-stone	Paper mill refuse	Township	Lime-stone	Paper mill refuse
Atkinson	\$2.40	\$1.00	Moose Lake	\$2.40	\$1.20
Automba	2.40	1.20	Perch Lake	2.40	1.00
Barnum	2.40	1.20	Progress	2.40	1.00
Besemann	2.40	1.20	Red Clover	2.40	1.20
Blackhoof	2.40	1.20	Sawyer	2.40	1.00
Clear Creek	2.40	1.20	Silver	2.40	1.20
Corona	2.40	1.00	Silver Brook	2.40	1.00
Eagle	2.40	1.20	Skelton	2.40	1.20
Holyoke	2.40	1.20	Split Rock	2.40	1.20
Kalevala	2.40	1.20	Thomson	2.40	1.00
Knife Falls	2.40	1.00	Twin Lake	2.40	1.00
Lakeview	2.40	1.20	Wrenshall	2.40	1.00
Mahtowa	2.40	1.00			

## CARVER COUNTY

<i>Township</i>	<i>Sugar beet refuse</i>
All townships	\$0.75

## CASS COUNTY

<i>Township</i>	<i>Limestone</i>
All townships	\$2.50

## CHISAGO COUNTY

<i>Township</i>	<i>Lime-stone</i>	<i>Marl</i>	<i>Township</i>	<i>Lime-stone</i>	<i>Marl</i>
Amador	\$1.90	\$0.90	Lent	\$1.80	\$0.90
Branch	1.80	.70	Nessel	2.00	.80
Chisago Lake	1.80	.90	Rushseba	2.00	.50
Fish Lake	2.00	.90	Shafer	1.90	1.00
Franconia	1.90	1.00	Sunrise	2.00	.90
Harris	1.90	.70	Wyoming	1.80	.90

## CROW WING COUNTY

<i>Township</i>	<i>Lime-stone</i>	<i>Marl</i>
All townships	\$2.50	\$1.30

## DAKOTA COUNTY

<i>Township</i>	<i>Lime-stone</i>	<i>No. 2 lime-stone</i>	<i>Township</i>	<i>Lime-stone</i>	<i>No. 2 lime-stone</i>
Burnsville	\$1.60	\$1.20	Lebanon	\$1.60	\$1.20
Castle Rock	1.50	1.10	Marshan	1.50	1.10
Douglas	1.60	1.20	Mendota	1.60	1.20
Eagan	1.60	1.20	Nininger	1.50	1.10
Empire	1.50	1.10	Randolph	1.60	1.20
Eureka	1.60	1.20	Ravenna	1.60	1.20
Greenvale	1.50	1.10	Rosemount	1.50	1.10
Hampton	1.50	1.10	Sciota	1.50	1.10
Hastings	1.60	1.20	Vermillion	1.50	1.10
Invergrove	1.60	1.20	Waterford	1.50	1.10
Lakeville	1.60	1.20			

## DODGE COUNTY

<i>Township</i>	<i>Limestone</i>	<i>Township</i>	<i>Limestone</i>	<i>Township</i>	<i>Limestone</i>
Ashland	\$1.30	Ellington	\$1.50	Ripley	\$1.50
Canisteo	1.30	Hayfield	1.40	Vernon	1.40
Claremont	1.40	Mantorville	1.30	Wasioja	1.30
Concord	1.50	Milton	1.50	Westfield	1.50

## FILLMORE COUNTY

<i>Township</i>	<i>Limestone</i>	<i>Township</i>	<i>Limestone</i>	<i>Township</i>	<i>Limestone</i>
Amherst	\$1.40	Chatfield	\$1.40	Norway	\$1.30
Arendahl	1.60	Fillmore	1.30	Pilot Mound	1.50
Beaver	1.20	Forestville	1.20	Preble	1.60
Bloomfield	1.20	Fountain	1.30	Preston	1.30
Bristol	1.20	Harmony	1.20	Rushford	1.40
Canton	1.30	Holt	1.40	Spring Valley	1.20
Carimona	1.30	Jordan	1.40	Sumner	1.40
Carrollton	1.40	Newburg	1.60	York	1.20

## FREEBORN COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Alberta Lea.....	\$1.80	Geneva.....	\$2.10	Newry.....	\$1.80
Alden.....	2.10	Hartland.....	2.10	Nunda.....	2.10
Bancroft.....	2.10	Hayward.....	1.50	Oakland.....	1.30
Bath.....	2.10	London.....	1.30	Pickerel Lake.....	2.10
Carlston.....	2.10	Manchester.....	2.10	Riceland.....	1.80
Freeborn.....	2.10	Mansfield.....	2.10	Shell Rock.....	1.50
Freeman.....	1.80	Moscow.....	1.50		

## GOODHUE COUNTY

Belle Creeke.....	\$1.50	Goodhue.....	\$1.50	Stanton.....	\$1.60
Belvidere.....	1.50	Hay Creek.....	1.60	Vasa.....	1.90
Burnside.....	1.70	Holden.....	1.50	Wacouta.....	1.90
Cannon Falls.....	1.70	Kenyon.....	1.50	Wanamingo.....	1.50
Central Point.....	1.90	Leon.....	1.50	Warsaw.....	1.50
Cherry Grove.....	1.50	Minneola.....	1.50	Welch.....	1.80
Featherstone.....	1.60	Pine Island.....	1.50	Zumbrota.....	1.50
Florence.....	1.90	Roscoe.....	1.50		

## HENNEPIN COUNTY

Township	Lime-stone	Sugar beet refuse
All townships.....	\$1.50	\$0.75

## HOUSTON COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Black Hammer.....	\$1.60	Jefferson.....	\$1.70	Spring Grove.....	\$1.50
Brownsville.....	1.60	La Crescent.....	1.60	Union.....	1.50
Caledonia.....	1.50	Mayville.....	1.50	Wilmington.....	1.50
Crooked Creek.....	1.70	Money Creek.....	1.60	Winnebago.....	1.50
Hokah.....	1.70	Mound Prairie.....	1.60	Yucatan.....	1.60
Houston.....	1.60	Sheldon.....	1.50		

## ISANTI COUNTY

Athens.....	\$1.70	Maple Ridge.....	\$1.90	Stanchfield.....	\$1.90
Bradford.....	1.80	North Branch.....	1.90	Stanford.....	1.80
Cambridge.....	1.90	Oxford.....	1.70	Wyanett.....	2.00
Dalbo.....	1.90	Spencer Brook.....	1.90		
Isanti.....	1.80	Springvale.....	1.90		

## ITASCA COUNTY

Township	Lime-stone	Marl
All townships.....	\$2.10	\$0.80

## KANABEC COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Ann Lake.....	\$2.30	\$1.20	Kanabec.....	\$2.30	\$1.20
Arthur.....	2.30	1.20	Knife Lake.....	2.30	1.20
Brunswick.....	2.30	1.20	Kroschel.....	2.40	1.20
Comfort.....	2.30	1.10	Peace.....	2.40	1.20
Ford.....	2.40	1.20	Pomroy.....	2.40	1.20
Grass Lake.....	2.30	1.00	South Fork.....	2.30	1.20
Hay Brook.....	2.40	1.20	Whited.....	2.30	1.20
Hillman.....	2.40	1.20			



Township	LAKE COUNTY	Carbide refuse
All townships	-----	\$1.10

## MILLE LACS COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Bogus Brook	\$2.00	Hayland	\$2.10	Mudgett	\$2.20
Borgholm	2.00	Isle Harbor	2.40	Onamia	2.20
Bradbury	2.20	Kathio	2.40	Page	2.10
Dailey	2.20	Lewis	2.50	Princeton	2.00
East Side	2.20	Milaca	2.00	South Harbor	2.30
Greenbush	2.00	Milo	2.00		

## MORRISON COUNTY

Township	Limestone
All townships	----- \$2.40

## MOWER COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Adams	\$1.40	Lansing	\$1.20	Pleasant Valley	\$1.20
Austin	1.10	Le Roy	1.20	Racine	1.10
Bennington	1.20	Lodi	1.40	Red Rock	1.40
Clayton	1.30	Lyle	1.10	Sargeant	1.40
Dexter	1.30	Marshall	1.40	Udolpho	1.50
Frankford	1.10	Nevada	1.30	Waltham	1.50
Grand Meadow	1.20			Windom	1.20

## OLMSTED COUNTY

Cascade	\$1.30	High Forest	\$1.30	Pleasant Grove	\$1.30
Dover	1.30	Kalmar	1.30	Quincy	1.30
Elmira	1.30	Marion	1.30	Rochester	1.30
Eyota	1.20	New Haven	1.30	Rock Dell	1.30
Farmington	1.30	Orion	1.30	Salem	1.30
Haverhill	1.30	Oronoco	1.30	Viola	1.30

## PINE COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Arlone	\$2.30	\$1.10	Kerrick	\$2.30	\$1.20
Arna	2.30	1.20	Kettle River	2.30	1.20
Barry	2.30	1.00	Mission Creek	2.30	.80
Belden	2.30	1.20	Munch	2.30	.90
Birch Creek	2.30	1.20	Nickerson	2.30	1.20
Bremen	2.30	1.20	Norman	2.30	1.20
Brook Park	2.30	1.00	Ogema	2.30	1.20
Bruno	2.30	1.20	Park	2.30	1.20
Chengwatana	2.30	.90	Partridge	2.30	1.20
Clover	2.30	1.20	Pine City	2.30	.90
Crosby	2.30	.90	Pine Lake	2.30	1.20
Danforth	2.30	1.20	Pokegama	2.30	.90
Dell Grove	2.30	1.20	Rock Creek	2.30	.80
Dosey	2.30	1.20	Royalton	2.30	.90
Finlayson	2.30	1.20	Sandstone	2.30	1.20
Fleming	2.30	1.20	Sturgeon Lake	2.30	1.20
Hinckley	2.30	1.00	Wilma	2.30	1.20
Keene	2.30	1.20	Windemere	2.30	1.20

## RAMSEY COUNTY

Township	Lime-stone	Township	Lime-stone
Mound View	\$1.40	Rose	\$1.30
New Canada	1.40	White Bear	1.40

## RICE COUNTY

Township	Lime-stone	No. 2 lime-stone	Township	Lime-stone	No. 2 lime-stone
Bridgewater.....	\$1.50	\$1.10	Shieldsville.....	\$1.80	\$1.40
Cannon City.....	1.60	1.20	Walcott.....	1.40	1.10
Erin.....	1.80	1.40	Warsaw.....	1.40	1.10
Forest.....	1.60	1.20	Webster.....	1.60	1.20
Morristown.....	1.50	1.10	Wells.....	1.80	1.40
Northfield.....	1.50	1.10	Wheatland.....	1.80	1.40
Richland.....	1.50	1.10	Wheeling.....	1.60	1.20

Township	NORTH ST. LOUIS COUNTY	Limestone
All townships.....		\$2.60

## SOUTH ST. LOUIS COUNTY

Township	Lime-stone	Paper mill refuse	Blast furnace slag	Marl
All townships.....	\$2.60	\$1.30	\$1.80	\$1.30

## SCOTT COUNTY

Township	Lime-stone	Sugar beet refuse
All townships.....	\$1.60	\$0.75

## SHERBURNE COUNTY

Township	Lime-stone	Marl	Township	Lime-stone	Marl
Baldwin.....	\$2.00	\$1.00	Haven.....	\$2.30	\$1.00
Becker.....	2.20	1.00	Livonia.....	2.00	1.00
Big Lake.....	1.90	.90	Orrock.....	2.00	1.00
Bluehill.....	2.00	1.00	Palmer.....	2.30	1.00
Clear Lake.....	2.20	1.00	Santiago.....	2.20	1.00
Elk River.....	1.80	.90			

## STEARNS COUNTY

Township	Lime-stone	Marl
All townships.....	\$2.40	\$0.90

## STEELE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Aurora.....	\$1.40	Havana.....	\$1.40	Owatonna.....	\$1.30
Berlin.....	1.50	Lemond.....	1.50	Somerset.....	1.40
Blooming Prairie...	1.50	Medford.....	1.30	Summit.....	1.50
Clinton Falls.....	1.30	Meriden.....	1.40		
Deerfield.....	1.40	Merton.....	1.40		

## TODD COUNTY

<i>Township</i>	<i>Limestone</i>
All townships-----	\$2.50

## WABASHA COUNTY

All townships-----	\$1.50
--------------------	--------

## WASHINGTON COUNTY

<i>Township</i>	<i>Limestone</i>	<i>Township</i>	<i>Limestone</i>	<i>Township</i>	<i>Limestone</i>
Afton-----	\$1.40	Grant-----	\$1.50	New Scandia-----	\$1.70
Baytown-----	1.40	Lakeland-----	1.40	Oakdale-----	1.40
Cottage Grove-----	1.40	Lincoln-----	1.50	Oneka-----	1.60
Denmark-----	1.40	May-----	1.70	Stillwater-----	1.50
Forest Lake-----	1.70	Newport-----	1.40	Woodbury-----	1.40

## WINONA COUNTY

Dresbach-----	\$1.60	New Hartford-----	\$1.50	Utica-----	\$1.50
Elba-----	1.50	Norton-----	1.50	Warren-----	1.50
Fremont-----	1.40	Pleasant Hill-----	1.50	Whitewater-----	1.60
Hart-----	1.50	Richmond-----	1.50	Wilson-----	1.50
Hillsdale-----	1.50	Rollingstone-----	1.50	Winona-----	1.50
Homer-----	1.50	St. Charles-----	1.50	Wiscoy-----	1.50
Mount Vernon-----	1.50	Saratoga-----	1.50		

## WRIGHT COUNTY

<i>Township</i>	<i>Lime-stone</i>	<i>Marl</i>	<i>Township</i>	<i>Lime-stone</i>	<i>Marl</i>
Albion-----	\$2.00	\$0.90	Marysville-----	\$2.00	\$0.90
Buffalo-----	1.90	.80	Middleville-----	2.00	.90
Chatham-----	2.00	.90	Monticello-----	2.00	.80
Clearwater-----	2.10	.80	Otsego-----	1.90	.90
Cokato-----	2.10	.90	Rockford-----	1.90	.90
Corinna-----	2.00	.90	Silver Creek-----	2.10	.80
Frankfort-----	1.90	.90	Southside-----	2.10	.90
Franklin-----	1.90	.90	Stockholm-----	2.10	.90
French Lake-----	2.10	.90	Victor-----	2.00	.90
Maple Lake-----	2.00	.90	Woodland-----	1.90	.90

50

50

50

50

50

50

50

50

50

50

50

50

50

50

50

50

50

50

50

50

50

50

50

50

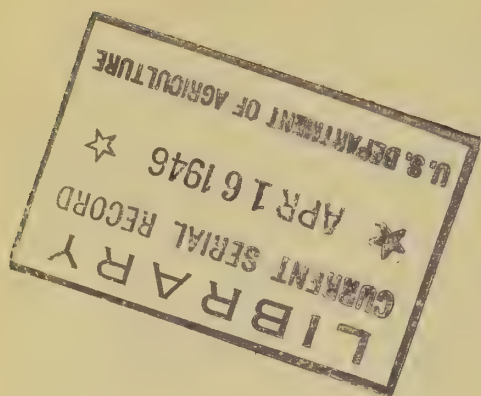
50

50

50

50





## UNITED STATES DEPARTMENT OF AGRICULTURE

## PRODUCTION AND MARKETING ADMINISTRATION

## FIELD SERVICE BRANCH

Washington, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

**MISSOURI COMMITTEEMAN'S PRACTICE HANDBOOK**

The 1946 Farm Program is designed to assist the farmers of Missouri to the fullest possible extent in protecting their soils against damage from erosion and loss of fertility.

The county committee will designate those practices which will be approved for payment in the county in order that the available funds will be used most effectively to bring about increased conservation. Written approval by the county committee must be obtained for each practice to be performed on any individual's farm prior to the carrying out of such practices except that practices performed before April 1, 1946 may be approved retroactively by the county committee.

**A. FUNDS AVAILABLE FOR CONSERVATION PRACTICES ON INDIVIDUAL FARMS**

The county and community committeemen will determine for each farm, on the basis of the conservation needs and farmer's intentions, maximum payments for each practice approved for the farm. The sum of the maximum payments approved cannot exceed the county limits approved for this purpose by the State committee. Official notice of such approval will be forwarded to the operator and other parties interested in the operation of the farm.

**B. CONSERVATION PRACTICES**

The practices available for 1946 are those which are most needed in order to conserve and improve soil fertility, improve pasture land, prevent wind and water erosion, and promote conservation and better utilization of water. Assistance will be available for carrying out the following practices during the program year January 1, 1946, through December 31, 1946. To qualify for payment, each practice must be carried out in accordance with the specifications for that practice and be in keeping with good farming practices for the locality.

Except as stated below the total extent of any practice performed shall be reduced for purposes of payment by the percentage of the total cost of the practice which the county committee determines was furnished by a State or Federal agency. The extent of any practice shall not be reduced because a portion of the cost is represented by materials or services furnished by the F. S. B., or equipment furnished by S. C. S., or materials or services furnished by an agency of a State or political subdivision thereof to another agency or political subdivision of the same State, or trees purchased from a Clark-McNary Cooperative State Nursery.

(1) **Contouring intertilled crops.**—Contour farming of intertilled crops provided the crop stubble is left standing or a good stand of a winter cover crop is obtained. Contour base guide lines shall be spaced at intervals not to exceed 20 rods horizontal distance between lines, or 8 feet vertical distance. Lines shall be laid out on a grade of not less than 2 inches nor more than 6 inches fall in 100 feet and should be determined with a farm level or similar device, or follow approved established terraces. Any gullies on the land must be protected by a vegetative cover or by mechanical means.—**\$1.50 per acre.**

(2) **Contour seeding.**—Drilling small grains, sorghums, millet, or soybeans, on the contour. All operations, including plowing, in connection with the seeding must be on the contour. Contour base guide lines shall be spaced at intervals not to exceed 20 rods horizontal distance between lines, or 8 feet vertical distance. Lines shall be laid out on a grade of not less than 2 inches nor more than 6 inches fall in 100 feet, and should be determined with a farm level or similar device, or follow approved established terraces. Any gullies on the land must be protected by a vegetative cover or by mechanical means.—**\$0.50 per acre.**

(3) **Standard terraces.**—Construction of standard terraces with a minimum ridge cross-section of at least 10 square feet. Proper outlets must be provided. The terraces and outlets must be designed to conform with the minimum specifications required by the State committee.—**\$1.50 per 100 linear feet.**

(4) **Diversion terraces.**—Construction of diversion terraces with a minimum ridge cross-section of at least 10 square feet. All diversions must empty into a grassed outlet. The terrace and outlets must be designed to conform with minimum specifications required by the State Committee.—**\$0.08 per cu. yd. of material moved, but not in excess of \$8.00 per 100 lin. ft.**

(5) **Establishing terrace outlets.**—Establishing a permanent grassed terraced outlet at least 8 feet wide at the narrowest point. The outlet must be constructed in accordance with the minimum specifications required by the State committee. A permanent sod of perennial grasses must be obtained.—**\$0.75 per 1,000 square feet.**

(6) **Dams and reservoirs for livestock water.**—Construction of earthen, concrete, or rubble masonry dams and reservoirs for the purpose of providing water for livestock. Earthen dams must be constructed with the minimum slopes of 3 to 1 on the upstream side and 2 to 1 on the downstream side, and must have a crown width of 1 foot for every foot in height of fill, but not exceeding 10 feet. Dams of 10 feet or less in height must have a minimum freeboard of 3 feet. Dams over 10 feet in height must have a minimum freeboard of 4 feet. The dam or pond must be fenced to exclude livestock. The water must be piped out to a stock water tank, and the pond must have a minimum depth of 8 feet at the deepest point. If the drainage area for the pond is not protected by sod or other vegetation, a protective sod strip with a minimum width of 100 feet must be established around the pond.

The county committee must make the following determinations before approving the construction of a dam or reservoir:

(1) That the soil conditions at the location will insure water retention and the site selected will provide adequate depth and storage of water with a reasonable expenditure for dam construction.

(2) That the watershed area is in proper relationship to the capacity of the proposed pond.

(3) That the dam will be of sufficient height, proper design, and adequately protected against erosion.

(4) That an adequate spillway is to be provided and protected with vegetative cover or by mechanical means.

(5) That the project will contribute to a better distribution of grazing.

(a) For earth or other material moved.—\$0.12 per cu. yd.

(b) For concrete or masonry.—\$9.00 per cu. yd.

(c) For rubble masonry.—\$6.00 per cu. yd.

(7) **Green manure crops.**—Disking or plowing under a good stand and a good growth of the following crops. If the land is subject to erosion, and the green manure is turned under in the fall, the land must be protected by a winter cover crop.—\$1.50 per acre.

(a) Winter rye, oats, barley, wheat, or soybeans, in orchards, vineyards, and vegetable land.

(b) 1945 fall seedings of winter rye, winter oats, and winter barley.

(c) Winter vetch, crimson clover, Austrian winter peas, bur clover, or crotalaria.

(d) Sweetclover.

(e) Alsike or red clover turned under in the fall of 1946.

(8) **Winter cover crops.**—Establishing a winter cover by seeding the following winter legumes. No credit will be given unless a good stand and a good vegetative growth is obtained.

(a) Seeding not less than 20 lbs. of winter vetch per acre.—\$2.50 per acre.

(b) Seeding not less than 15 lbs. of crimson clover per acre.—\$2 per acre.

(c) Seeding not less than 8 bu. (in the burr) of bur clover per acre.—\$4 per acre.

(d) Seeding not less than 25 lbs. of Austrian winter peas per acre.—\$2 per acre.

(9) **Construction of open farm drainage ditches.**—Construction or enlargement of farm ditches, including lateral and lead ditches, for which proper outlets have been provided and adequate provision is made for the entrance of water into and out of the ditch. The ditches must have adequate capacity to remove the normal excess surface water and must meet the following minimum specifications: (1) The average depth of the channel must be at least 1 foot; (2) the side slopes must be at least 3 to 1; (3) the average width of the bottom of the channel must be at least 2 feet; and (4) the grade in the channel must not exceed 6 percent. No credit may be given for ditches which are constructed or maintained by a drainage district or for ditches which do not drain cropland or for material moved in cleaning a ditch.—\$0.08 per cu. yd. but not in excess of \$8 per 100 linear feet.

(10) **Harvesting hayseed.**—Harvesting for seed an acreage of alfalfa, red clover, or alsike clover. Credit will not be given for more than 25 acres per farm.—\$3.50 per acre.

(11) **Weed eradication on cropland.**—Eradication of seriously infested plots of Canada thistle or bindweed. Payment may be approved only on farms where approved weed control measures are being carried out on all adjacent infested farms and contiguous land,



where the infestations is limited to a single farm, or where the county committee determines that there is no likelihood of reinfestation from adjacent or contiguous land. No crop may be taken from the land but the weeds may be cut and removed before tillage is begun.

(a) By use of sodium chlorate or other chemicals approved by the State committee.—\$0.07 per lb.

(b) By continuous clean tillage.—\$10 per acre.

(12) **Tree planting.**—Planting trees for forestry purposes, gully control or windbreak, in accordance with good tree culture. The site and species to be planted must have the approval of the county committee. The plantings must be protected from fire and grazing. The following species may be approved provided they are adapted to the particular soil type, climatic conditions, moisture conditions, and site: Shortleaf pine, eastern red cedar, walnut, butternut, white ash, black locust, Virginia pine and hardy catalpa.

(a) For forest purposes.—\$1 per 100 trees, but not to exceed \$7.50 per acre.

(b) For gully control.—\$1 per 100 trees, but not to exceed \$7.50 per acre.

(c) For windbreak.—\$2 per 100 trees.

(13) **Maintaining a stand of trees in a windbreak.**—Maintaining a good stand of at least 250 trees per acre, which have been planted between January 1, 1941, and January 1, 1946, by cultivating sufficiently to control other vegetation, protecting from fire and grazing, and replanting if necessary.—\$3 per acre.

(14) **Liming materials** (credit rates are contained in NCR-46-1, Supplement 1).—Application of the following materials:

(1) **One ton of agricultural ground limestone** containing at least 80 percent calcium carbonate equivalent and ground sufficiently fine so that 90 percent including all of the finer particles obtained in the grinding process, will pass through an 8-mesh sieve. The moisture content at the time of shipment must not exceed 8 percent.

(2) **One ton of by-product of lead mines.**—The lead must have been separated by the water table method and the sludge ground so that 90 percent will pass through an 8-mesh sieve and the material must contain a minimum of 80 percent calcium carbonate equivalent.

(3) **One ton of hydrated lime.**

A correspondingly greater amount of material must be required if the materials do not meet the specifications.

(15) **Fertilizers.**—Application of **superphosphate, defluorinated phosphate rock, or potash** to: (1) **pastures**; (2) **new seedings** of biennial or perennial legumes, winter legumes, lespedeza, or perennial grasses with or without a nurse crop; (3) **old stands** of biennial or perennial legumes, or perennial grasses, provided the acreage on which such applications are made is not cultivated for, devoted to, or plowed for any other crop prior to January 1, 1947; and (4) **green manure** crops in orchards.

(a) Superphosphate or defluorinated phosphate rock.—\$4 per 100 lbs. of available  $P_2O_5$ .

(b) Potash.—\$2.50 per 100 lbs. of available  $K_2O$ .

(c) 100 lbs. of 0-10-20\_\_\_\_\_ \$0.90

(d) 100 lbs. of 0-12-12\_\_\_\_\_ .80

(e) 100 lbs. of 0-14-7\_\_\_\_\_ .70

(f) 100 lbs. of 0-14-14\_\_\_\_\_ .90

(g) 100 lbs. of 0-18-0\_\_\_\_\_ .70

(h) 100 lbs. of 0-19-0\_\_\_\_\_ .80

(i) 100 lbs. of 0-20-0\_\_\_\_\_ .80

(j) 100 lbs. of 0-20-10\_\_\_\_\_ 1.00

(k) 100 lbs. of 0-20-20\_\_\_\_\_ 1.30

(l) 100 lbs. of 2-12-6\_\_\_\_\_ \$0.60

(m) 100 lbs. of 3-9-18\_\_\_\_\_ .80

(n) 100 lbs. of 3-12-12\_\_\_\_\_ .80

(o) 100 lbs. of 3-18-9\_\_\_\_\_ .90

(p) 100 lbs. of 4-10-6\_\_\_\_\_ .50

(q) 100 lbs. of 4-12-4\_\_\_\_\_ .60

(r) 100 lbs. of 4-16-0\_\_\_\_\_ .60

(s) 100 lbs. of 5-10-10\_\_\_\_\_ .60

(t) 100 lbs. of 10-6-4\_\_\_\_\_ .30

(16) **Fertilizers.**—Application of **rock phosphate** containing at least 30 percent phosphoric acid or colloidal phosphate containing at least 18 percent phosphoric acid to any crop.

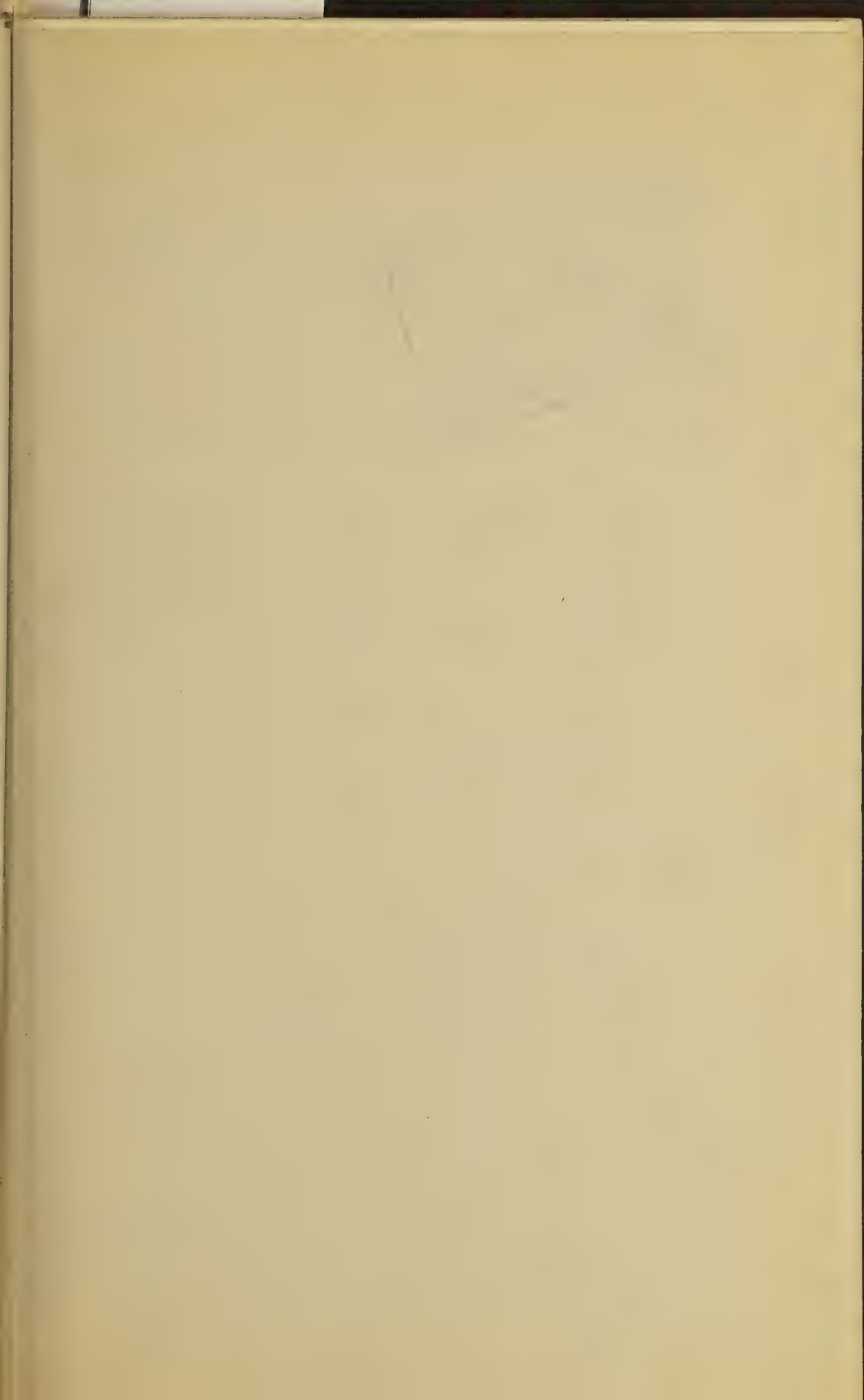
(a) For rock phosphate.—\$0.40 per 100 lbs.

(b) For colloidal phosphate.—\$0.25 per 100 lbs.

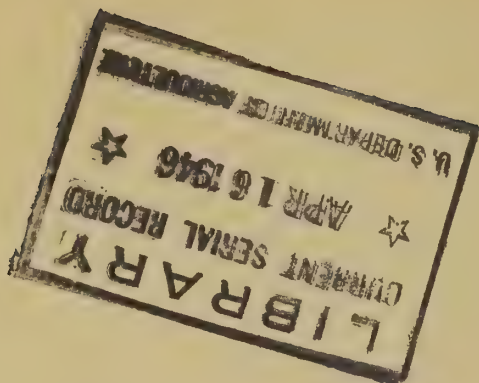
#### C. POOLING AGREEMENTS

Producers in any local area may agree in writing with the approval of the county and State committees, to cooperatively perform the following practice on one or more of the farms operated by such producers provided all of their farms are benefited by the performance of such practice: (9) Construction of Open Farm Drainage Ditches. Instructions for carrying out a pooling agreement are contained in NCR-46-2.









**UNITED STATES DEPARTMENT OF AGRICULTURE**  
**PRODUCTION AND MARKETING ADMINISTRATION**  
**FIELD SERVICE BRANCH—WASHINGTON, D. C.**

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

**SUPPLEMENT 1 TO MISSOURI COMMITTEEMAN'S  
PRACTICE HANDBOOK**

**1946 CREDIT RATES FOR LIMING MATERIALS**

The credit rate for hydrated lime is the same throughout the the State—\$4.00 per ton.

The following are the credit rates per ton for the other materials for which credit will be given in your county:

<b>ADAIR COUNTY</b>		<b>BARRY COUNTY</b>		<b>BARTON COUNTY</b>	
<i>Township</i>	<i>Limestone</i>	<b>—Continued</b>		<b>—Continued</b>	
		<i>Township</i>	<i>Limestone</i>	<i>Township</i>	<i>Limestone</i>
Benton.....	\$1.70	Exeter.....	\$1.40	Richland.....	\$1.80
Clay.....	1.70	Flat Creek.....	1.40	South West.....	2.10
Liberty.....	1.70	Jenkins.....	1.60	Union.....	2.00
Morrow.....	1.50	King Prairie.....	1.50		
Ninevah.....	1.60	Liberty.....	1.60	<b>BATES COUNTY</b>	
Pettis.....	1.70	McDonald.....	2.00	Charlotte.....	\$1.60
Polk.....	1.70	Mineral.....	1.60	Deepwater.....	1.90
Salt River.....	1.70	Monett.....	1.50	Deer Creek.....	2.00
Walnut.....	1.70	Mountain.....	2.00	East Boone.....	2.20
Wilson.....	1.70	Ozark.....	1.90	Elkhart.....	1.90
		Pioneer.....	1.60	Grand River.....	1.90
<b>ANDREW COUNTY</b>		Pleasant Ridge.....	1.60	Homer.....	1.90
All townships.....	\$1.90	Purdy.....	1.40	Howard.....	2.20
<b>ATCHISON COUNTY</b>		Roaring River.....	1.70	Hudson.....	1.90
All townships.....	\$2.30	Shell Knob.....	1.90	Lone Oak.....	1.80
<b>AUDRAIN COUNTY</b>		Sugar Creek.....	1.90	Mingo.....	1.90
Cuivre.....	\$1.90	Washburn.....	1.60	Mound.....	1.80
Linn.....	1.80	Wheaton.....	1.70	Mt. Pleasant.....	1.60
Loutre.....	1.90	White River.....	1.90	New Home.....	2.20
Prairie.....	1.80			Osage.....	2.00
Saling.....	2.00	<b>BARTON COUNTY</b>		Pleasant Gap.....	1.90
Salt River.....	1.80	Barton City.....	\$2.20	Prairie.....	1.90
Wilson.....	1.90	Central.....	2.00	Rockville.....	1.90
<b>BARRY COUNTY</b>		Doylesport.....	2.00	Shawnee.....	1.90
Ash.....	\$1.90	Golden City.....	2.00	Spruce.....	1.90
Butterfield.....	1.40	Lamar.....	1.80	Summit.....	1.80
Capps Creek.....	1.60	Leroy.....	2.20	Walnut.....	2.30
Corsicana.....	1.60	Milford.....	2.20	West Boone.....	2.30
Crane Creek.....	2.00	Nashville.....	2.00	West Point.....	2.10
		Newport.....	2.00		
		North Fork.....	1.80	<b>BENTON COUNTY</b>	
		Ozark.....	2.10	All townships.....	\$1.80

## BOLLINGER COUNTY

Township	Limestone	Byproduct of lead mine	Township	Limestone	Byproduct of lead mine
Crooked Creek-----	\$2.00	\$1.60	Scopus-----	\$2.00	\$1.60
Fillmore-----	2.00	1.80	Union-----	2.00	1.60
Liberty-----	2.00	1.80	Wayne-----	2.00	1.80
Lorance-----	2.00	1.80	Whitewater-----	2.00	1.60

## BOONE COUNTY

Township	Limestone
Bourbon-----	\$1.60
Cedar-----	1.70
Centralia-----	1.80
Columbia-----	1.50
Missouri-----	1.70
Perche-----	1.70
Rocky Fork-----	1.70

## BUCHANAN COUNTY

Agency-----	\$2.00
Bloomington-----	1.90
Center-----	1.90
Crawford-----	1.90
Jackson-----	2.00
Marion-----	2.20
Platte-----	2.00
Rush-----	1.90
Tremont-----	2.00
Washington-----	2.10
Wayne-Lake-----	1.90

## BUTLER COUNTY

All townships----- \$1.40

## CALDWELL COUNTY

All townships----- \$1.70

## CALLAWAY COUNTY

Auxvasse-----	\$2.20
Bourbon-----	1.80
Caldwell-----	2.00
Calwood-----	1.80
Cedar-----	2.10
Cleveland-----	1.70
Cote Sans Dessein-----	2.20
Fulton-----	1.80
Guthrie-----	2.00
Jackson-----	1.60
Liberty-----	1.70
McCredie-----	1.60
Nine Mile Prairie-----	1.90
Round Prairie-----	2.00
St. Aubert-----	2.10
Shamrock-----	1.90
Summit-----	2.20

## CAMDEN COUNTY

All townships----- \$1.90

CAPE GIRARDEAU  
COUNTY

Township	Limestone
Apple Creek-----	\$1.50
Byrd-----	1.30
Cape Girardeau-----	1.30
Hubble-----	1.50
Kinder-----	1.60
Liberty-----	1.60
Randol-----	1.50
Shawnee-----	1.80
Welch-----	1.60
Whitewater-----	1.60

## CARROLL COUNTY

Carrollton-----	\$1.90
Cherry Valley-----	2.10
Combs-----	2.00
Dewitt-----	2.10
Egypt-----	2.00
Eugene-----	2.10
Fairfield-----	1.70
Hill-----	2.00
Hurricane-----	2.00
Leslie-----	1.60
Miami-----	2.10
Moss Creek-----	2.00
Prairie-----	1.90
Ridge-----	2.00
Rockford-----	2.00
Smith-----	2.20
Stokes Mound-----	1.90
Sugartree-----	2.00
Trotter-----	1.80
Van Horn-----	1.80
Wakenda-----	1.90
Washington-----	1.90

## CARTER COUNTY

All townships----- \$1.60

## CASS COUNTY

All townships----- \$1.90

## CEDAR COUNTY

All townships----- \$2.10

## CHARITON COUNTY

All townships----- \$1.80

## CHRISTIAN COUNTY

All townships----- \$1.90

## CLARK COUNTY

Township	Limestone
All townships-----	\$1.60

## CLAY COUNTY

Fishing River-----	\$1.90
Gallatin-----	1.90
Kearney-----	1.80
Liberty-----	1.60
Platte-----	1.90
Washington-----	1.80

## CLINTON COUNTY

All townships----- \$1.70

## COLE COUNTY

All townships----- \$1.60

## COOPER COUNTY

All townships----- \$1.70

## CRAWFORD COUNTY

All townships----- \$1.90

## DADE COUNTY

All townships----- \$1.80

## DALLAS COUNTY

All townships----- \$1.70

## DAVIESS COUNTY

All townships----- \$1.80

## DE KALB COUNTY

Adams-----	\$1.70
Camden-----	1.70
Colfax-----	1.90
Dallas-----	1.70
Grand River-----	1.70
Grant-----	1.70
Polk-----	2.30
Sherman-----	2.40
Washington-----	2.10

## DENT COUNTY

All townships----- \$1.90

## DOUGLAS COUNTY

All townships----- \$1.90

## DUNKLIN COUNTY

All townships----- \$1.70

## FRANKLIN COUNTY

Township	Limestone	Byproduct of lead mine
All townships	\$1.60	\$1.40

## GASCONADE COUNTY

Township	Limestone
All townships	\$1.70

## GENTRY COUNTY

Athens	\$2.10
Bogle	2.40
Cooper	2.30
Howard	2.40
Huggins	2.40
Jackson	2.30
Miller	2.40
Wilson	2.30

## GREENE COUNTY

Boone	\$1.60
Brookline	1.70
East Campbell	1.40
West Campbell	1.30
Cass	1.70
First Center	1.60
Second Center	1.60
Third Center	1.70
Clay	1.50
First Franklin	1.80
Second Franklin	1.50
First Jackson	1.70
Second Jackson	1.60
Murray	1.60
Pond Creek	1.70
Republic	1.70
First Robberson	1.80
Second Robberson	1.50
Taylor	1.80
Walnut Grove	1.60
Washington	1.50
Wilson	1.60

## GRUNDY COUNTY

All townships	\$1.80
---------------	--------

## HARRISON COUNTY

Township	Limestone
Adams	\$1.70
Bethany	1.40
Butler	1.70
Clay	1.90
Colfax	1.90
Cypress	1.60
Dallas	1.80
Fox Creek	1.70
Grant	1.60
Hamilton	1.90
Jefferson	1.60
Lincoln	1.90
Madison	1.90
Marion	1.90
Sherman	1.90
Sugar Creek	1.90
Trail Creek	1.90
Union	1.90
Washington	1.90
White Oak	1.60

## HENRY COUNTY

Bear Creek	\$1.70
Bethlehem	1.60
Big Creek	1.80
Bogard	1.60
Clinton	1.60
Davis	1.70
Deepwater	1.90
Deer Creek	1.70
Fairview	1.50
Fields Creek	1.70
Honey Creek	1.70
Leesville	1.70
Osage	1.60
Shawnee	1.70
Springfield	1.80

## HENRY COUNTY

## —Continued

Township	Limestone
Tebo	\$1.80
Walker	1.50
White Oak	1.50
Windsor	1.90

## HICKORY COUNTY

Center	\$1.90
Cross Timbers	2.20
Green	2.20
Jordan	2.30
Montgomery	1.90
Stark	2.00
Tyler	1.70
Weaubleau	1.50
Wheatland	1.70

## HOLT COUNTY

Benton	\$2.10
Bigelow	2.30
Clay	1.90
Forbes	2.30
Forest	2.30
Hickory	2.00
Lewis	2.30
Liberty	2.00
Lincoln	2.30
Minton	2.30
Nodaway	2.20
Union	2.20

## HOWARD COUNTY

All townships	\$2.10
---------------	--------

## HOWELL COUNTY

All townships	\$1.90
---------------	--------

## IRON COUNTY

Township	Limestone	Byproduct of lead mine
All townships	\$1.70	\$1.10

## JACKSON COUNTY

Township	Limestone
Blue-Kaw	\$1.60
Brookings- Washington	1.70
Fort Osage	1.80
Prairie	1.70
Sni-a-Bar	1.70
Van Buren	1.70

## JASPER COUNTY

Township	Limestone
Duval	\$1.60
Galena	1.60
Jackson	1.50
Jasper	1.60
Joplin	1.50
Lincoln	1.60
McDonald	1.60
Madison	1.50

## JASPER COUNTY

## —Continued

Township	Limestone
Marion	\$1.40
Mineral	1.50
Preston	1.60
Sarcoie	1.60
Sheridan	1.60
Twin Groves	1.60
Union	1.60



## JEFFERSON COUNTY

Township	Limestone	Byproduct of lead mine	Township	Limestone	Byproduct of lead mine
Big River-----	\$1.40	\$1.20	Plattin-----	\$1.40	\$0.90
Central-----	1.40	1.00	Rock-----	1.40	1.30
Joachim-----	1.40	1.00	Valle-----	1.40	.90
Meramec-----	1.40	1.30			

## JOHNSON COUNTY

Township	Limestone
All townships-----	\$2.00

## KNOX COUNTY

All townships-----	\$1.90
--------------------	--------

## LACLEDE COUNTY

Auglaize-----	\$1.60
Eldridge-----	1.60
Franklin-----	1.70
Gasconade-----	1.70
Hooker-----	1.60
Lebanon-----	1.60
Mayfield-----	1.60
Osage-----	1.60
Smith-----	1.60
Spring Hollow-----	1.60
Union-----	1.60
Washington-----	1.60

## LAFAYETTE COUNTY

Clay-----	\$1.60
Davis-----	1.90
Dover-----	1.90
Freedom-----	1.90
Lexington-----	1.80
Middleton-----	2.10
Sni-a-Bar-----	1.60
Washington-----	1.70

## LAWRENCE COUNTY

Township	Limestone
Aurora-----	\$2.10
Buck Prairie-----	2.10
Freistatt-----	2.00
Green-----	2.10
Hoberg-----	2.10
Lincoln-----	2.20
Mount Pleasant-----	2.10
Mount Vernon-----	2.20
Ozark-----	2.20
Pierce-----	1.90
Red Oak-----	2.10
Spring River-----	1.90
Turnback-----	2.20
Vineyard-----	2.10

## LEWIS COUNTY

All townships-----	\$1.70
--------------------	--------

## LINCOLN COUNTY

Bedford-----	\$1.70
Burr Oak-----	1.90
Clark-----	1.90
Hawk Point-----	1.90
Hurricane-----	1.90
Millwood-----	2.10
Monroe-----	1.90
Ninevah-----	2.20
Prairie-----	2.10

## LINCOLN COUNTY

## —Continued

Township	Limestone
Snow Hill-----	\$1.90
Union-----	1.90
Waverly-----	1.70

## LINN COUNTY

All townships-----	\$2.10
--------------------	--------

## LIVINGSTON COUNTY

Blue Mound-----	\$1.90
Chillicothe-----	1.80
Cream Ridge-----	1.90
Fairview-----	1.90
Grand River-----	2.00
Green-----	1.80
Jackson-----	1.70
Medicine-----	2.00
Monroe-----	1.80
Mooresville-----	1.80
Rich Hill-----	1.90
Sampsel-----	1.60
Wheeling-----	1.90

## MC DONALD COUNTY

All townships-----	\$1.80
--------------------	--------

## MACON COUNTY

All townships-----	\$2.10
--------------------	--------

## MADISON COUNTY

Township	Limestone	Byproduct of lead mine
All townships-----	\$1.50	\$1.20

## MARIES COUNTY

Township	Limestone
All townships-----	\$1.70

## MARION COUNTY

Fabius-----	\$1.80
Liberty-----	1.60
Miller-Mason-----	1.70
Round Grove-----	2.00
South River-----	1.60
Union-----	1.90
Warren-----	1.90

## MERCER COUNTY

All townships-----	\$1.80
--------------------	--------

## MILLER COUNTY

Township	Limestone
Equality-----	\$1.60
Franklin-----	1.60
Glaize-----	1.70
East Jim Henry-----	1.70
Osage-----	1.70
Richwoods-----	1.70
Saline-----	1.60
West Jim Henry-----	1.60

## MISSISSIPPI COUNTY

All townships-----	\$1.70
--------------------	--------

## MONITEAU COUNTY

Township	Limestone
All townships-----	\$1.50

## MONROE COUNTY

Clay-----	\$2.10
Monroe-Indian Creek-----	2.00
Jackson I-----	2.30
Jackson II-----	2.00
Jefferson-----	1.80
Marion-----	2.30
South Fork-----	1.70
Union-----	2.20
Washington-----	1.90
Woodlawn-----	2.30

**MONTGOMERY  
COUNTY**

<i>Township</i>	<i>Limestone</i>
Bear Creek.....	\$1.80
Danville.....	1.80
Loutre.....	1.80
Montgomery.....	1.80
Prairie.....	2.10
Upper Loutre.....	2.10

**MORGAN COUNTY**

Buffalo.....	\$1.80
Haw Creek.....	1.70
Mill Creek.....	1.80
Moreau.....	1.70
Osage.....	1.80
Richland.....	1.70

**NEW MADRID  
COUNTY**

All townships.....	\$1.70
--------------------	--------

**NEWTON COUNTY**

Berwick.....	\$1.70
Buffalo.....	1.70
Dayton.....	1.70
East Benton.....	1.70
Five Mile.....	1.70
Franklin.....	1.70
Granby.....	1.60
Marion.....	1.70
Neosho.....	1.60
Newtonia.....	1.70
Seneca.....	1.70
Shoal Creek.....	1.80
Van Buren.....	1.70
West Benton.....	1.70

**NODAWAY COUNTY**

Atchison.....	\$2.20
Grant.....	1.50
Green.....	2.00
Hopkins.....	2.10
Hughes.....	1.60
Independence.....	2.30
Jackson.....	1.90
Jefferson.....	1.80
Lincoln.....	2.40
Monroe.....	1.90
Nodaway.....	2.00
Polk.....	1.70
Union.....	2.00
Washington.....	1.60
White Cloud.....	1.40

**OREGON COUNTY**

<i>Township</i>	<i>Limestone</i>
All townships.....	\$1.70

**OSAGE COUNTY**

All townships.....	\$1.70
--------------------	--------

**OZARK COUNTY**

All townships.....	\$1.90
--------------------	--------

**PEMISCOT COUNTY**

All townships.....	\$1.90
--------------------	--------

**PERRY COUNTY**

Boise Brule.....	\$1.60
Brazeau.....	1.60
Central.....	1.50
Cinque Homme.....	1.60
St. Marys.....	1.70
Salem.....	1.70
Saline.....	1.50
Union.....	1.40

**PETTIS COUNTY**

Blackwater.....	\$1.70
Bowling Green.....	1.70
Cedar.....	1.70
Dresden.....	1.60
Elk Fork.....	1.70
Flat Creek.....	1.60
Green Ridge.....	1.80
Heaths Creek.....	1.70
Houstonia.....	1.70
Hughesville.....	1.60
Lake Creek.....	1.80
La Monte.....	1.60
Longwood.....	1.80
Prairie.....	1.60
Sedalia.....	1.60
Smithton.....	1.70
Washington.....	1.70

**PHELPS COUNTY**

All townships.....	\$1.80
--------------------	--------

**PIKE COUNTY**

Ashley.....	\$1.80
Buffalo.....	2.00
Calumet.....	2.20
Cuivre.....	1.80
Hartford.....	2.10
Indian.....	1.80
Peno.....	1.70
Prairieville.....	2.10
Salt River.....	2.10
Spencer.....	1.80

**PLATTE COUNTY**

<i>Township</i>	<i>Limestone</i>
All townships.....	\$1.70

**POLK COUNTY**

All townships.....	\$1.60
--------------------	--------

**PULASKI COUNTY**

All townships.....	\$1.80
--------------------	--------

**PUTNAM COUNTY**

Elm.....	\$1.80
Grant.....	1.80
Jackson.....	2.00
Liberty.....	1.80
Lincoln.....	1.80
Medicine.....	1.90
Richland.....	1.90
Sherman.....	1.90
Union.....	1.80
Wilson.....	2.00
York.....	1.90

**RALLS COUNTY**

Center.....	\$1.70
Clay.....	1.70
Jasper.....	2.00
Saline.....	2.00
Salt River.....	2.00
Saverton.....	1.90
Spencer.....	1.60

**RANDOLPH COUNTY**

Cairo.....	\$1.70
Chariton.....	1.90
Clifton.....	1.70
Jackson.....	1.80
Moniteau.....	1.70
Prairie.....	1.70
Salt River.....	1.90
Salt Spring.....	1.70
Silver Creek.....	1.60
Sugar Creek.....	1.70
Union.....	1.70

**RAY COUNTY**

All townships.....	\$1.70
--------------------	--------

**REYNOLDS COUNTY**

<i>Township</i>	<i>Limestone</i>	<i>Byproduct of lead mine</i>
All townships.....	\$1.50	\$1.20

**RIPLEY COUNTY**

<i>Township</i>	<i>Limestone</i>
All townships-----	\$1.70

**ST. CHARLES  
COUNTY**

Callaway-----	\$1.40
Cuivre-----	1.60
Dardenne-----	1.50
Femme Osage-----	1.50
Portage Des Sioux-----	1.50
St. Charles-----	1.30

**ST. CLAIR COUNTY**

<i>Township</i>	<i>Limestone</i>
Appleton-----	\$2.00
Butler-----	1.80
Center-----	1.90
Chalk Level-----	1.90
Collins-----	1.80
Dallas-----	1.80
Doyal-----	1.80
Jackson-----	2.00
Monegaw-----	2.00
Osage-----	2.20

**ST. CLAIR COUNTY  
—Continued**

<i>Township</i>	<i>Limestone</i>
Osceola-----	\$1.60
Polk-----	2.00
Roscoe-----	1.90
Speedwell-----	2.00
Taber-----	2.00
Washington-----	1.90

**ST. FRANCOIS COUNTY**

<i>Township</i>	<i>Byproduct of lead mine</i>	<i>Township</i>	<i>Byproduct of lead mine</i>
Big River-----	\$0.80	Pendleton-----	\$0.90
Iron-----	1.00	Perry-----	.70
Liberty-----	1.00	Randolph-----	.80
Marion-----	.90	St. Francois-----	.80

**ST. LOUIS COUNTY**

<i>Township</i>	<i>Limestone</i>	<i>Township</i>	<i>Limestone</i>	<i>Township</i>	<i>Limestone</i>
Bonhomme-----	\$1.50	Central-----	\$1.50	St. Ferdinand-----	1.50
Carondelet-----	1.40	Meramec-----	1.70		

**STE. GENEVIEVE COUNTY**

<i>Township</i>	<i>Limestone</i>	<i>Byproduct of lead mine</i>	<i>Township</i>	<i>Limestone</i>	<i>Byproduct of lead mine</i>
Beauvais-----	\$1.50	\$1.10	Saline-----	\$1.60	\$1.00
Jackson-----	1.50	1.00	Union-----	1.60	1.00
Ste. Genevieve-----	1.30	1.00			

**SALINE COUNTY**

<i>Township</i>	<i>Limestone</i>
Arrow Rock-----	\$1.90
Blackwater-----	1.90
Cambridge-----	2.00
Clay-----	2.00
Elmwood-----	2.10
Grand Pass-----	2.10
Liberty-----	2.00
Marshall-----	2.00
Miami-----	2.10
Salt Fork-----	1.90
Salt Pond-----	2.00

**SCHUYLER COUNTY**

Chariton-----	\$2.00
Fabius-----	2.10
Glenwood-----	2.00
Independence-----	2.10
Liberty-----	2.10
Prairie-----	1.90
Salt River-----	1.80

**SCOTLAND COUNTY**

All townships-----	\$2.10
--------------------	--------

**SCOTT COUNTY**

<i>Township</i>	<i>Limestone</i>
Commerce-----	\$1.70
Kelso-----	1.70
Moreland-----	1.70
Morely-----	1.70
Richland-----	1.60
Sandywoods-----	1.70
Sylvania-----	1.70
Tywapppity-----	1.60

**SHANNON COUNTY**

All townships-----	\$1.60
--------------------	--------

**SHELBY COUNTY**

Bethel-----	\$1.90
Black Creek-----	1.80
Clay-----	2.00
Jackson-----	1.50
Jefferson-----	2.00
Lentner-----	1.90
North River-----	1.50
Salt River-----	1.60
Taylor-----	1.90
Tiger Fork-----	2.10

**STODDARD COUNTY**

<i>Township</i>	<i>Limestone</i>
Castor-----	\$1.90
Duck Creek-----	1.70
Elk-----	1.90
Liberty-----	1.70
New Lisbon-----	1.90
Pike-----	1.90
Richland-----	1.70

**STONE COUNTY**

All townships-----	\$1.90
--------------------	--------

**SULLIVAN COUNTY**

All townships-----	\$1.70
--------------------	--------

**TANEY COUNTY**

All townships-----	\$1.90
--------------------	--------

**TEXAS COUNTY**

All townships-----	\$1.60
--------------------	--------

## VERNON COUNTY

Township	Limestone
Bacon.....	\$2.20
Badger.....	2.10
Blue Mound.....	2.20
Center.....	2.10
Clear Creek.....	2.20
Coal.....	2.00
Deerfield.....	2.00
Dover.....	2.10
Drywood.....	2.00
Harrison.....	2.20
Henry.....	2.00

## VERNON COUNTY

Township	Limestone
Lake.....	\$2.10
Metz.....	2.20
Montevallo.....	2.20
Moundville.....	2.10
Osage.....	2.20
Richland.....	2.00
Virgil.....	2.20
Walker.....	2.10
Washington.....	2.10

## WARREN COUNTY

Township	Limestone
Bridgeport.....	\$1.90
Camp Branch.....	2.10
Charrette.....	1.50
Elkhorn.....	1.80
Hickory Grove.....	2.00
Pinckney.....	1.60

## WASHINGTON COUNTY

Township	Limestone	Byproduct of lead mine	Township	Limestone	Byproduct of lead mine
Belgrade.....	\$1.00	\$0.80	Kingston.....	\$0.90	\$0.80
Bellevue.....	.80	.70	Liberty.....	1.20	1.10
Breton.....	.90	.80	Richwood.....	1.40	1.30
Concord.....	.80	.70	Union.....	1.00	.90
Harmony.....	1.40	1.30	Walton.....	1.10	1.00
Johnson.....	1.70	1.50			

## WAYNE COUNTY

Township	Limestone
Benton.....	\$0.90
Black River.....	1.20
Cedar Creek.....	1.20
Cowan.....	1.20
Jefferson.....	2.00
Logan.....	.90
Lost Creek.....	2.00
Mill Spring.....	1.00
St. Francois.....	1.10
Williams.....	1.20

## WEBSTER COUNTY

Township	Limestone
All townships.....	\$1.60

## WORTH COUNTY

All townships.....	\$2.20
--------------------	--------

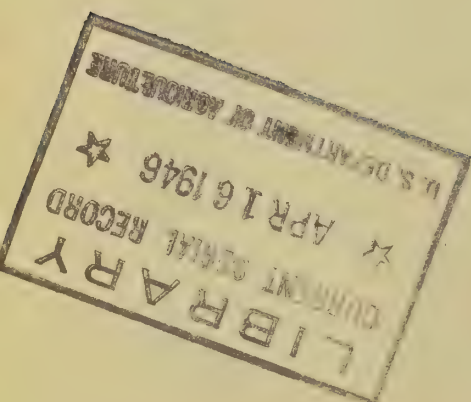
## WRIGHT COUNTY

Boone.....	\$1.60
Brush Creek.....	1.70
Clark.....	1.60

## WRIGHT COUNTY

Township	Limestone
Elk Creek.....	\$1.60
Gasconade.....	1.60
Hart.....	1.70
Montgomery.....	1.70
Mountain Grove.....	1.60
Pleasant Valley.....	1.70
Union.....	1.60
Van Buren.....	1.70
Wood.....	1.60





2  

---

UNITED STATES DEPARTMENT OF AGRICULTURE

PRODUCTION AND MARKETING ADMINISTRATION

FIELD SERVICE BRANCH

Washington, D. C.

---

1946 AGRICULTURAL CONSERVATION PROGRAMNORTH CENTRAL REGION

---

**NEBRASKA COMMITTEEMAN'S PRACTICE HANDBOOK**

The 1946 Farm Program is designed to assist the farmers of Nebraska to the fullest possible extent in protecting their soils against damage from erosion and loss of fertility.

The county committee will designate those practices which will be approved for payment in the county in order that the available funds will be used most effectively to bring about increased conservation. Written approval by the county committee must be obtained for each practice to be performed on any individual's farm, prior to the carrying out of such practice except that practices performed before April 1, 1946, may be approved retroactively by the county committee.

**A. FUNDS AVAILABLE FOR CONSERVATION PRACTICES ON  
INDIVIDUAL FARMS**

The county and community committeemen will determine for each farm, on the basis of the conservation needs and farmer's intentions, maximum payments for each practice approved for the farm. The sum of the maximum payments approved cannot exceed the county limits approved for this purpose by the State committee. Official notice of such approval will be forwarded to the operator and other parties interested in the operation of the farm.

**B. CONSERVATION PRACTICES**

The practices available for 1946 are those which are most needed in order to conserve and improve soil fertility, improve pasture land, prevent wind and water erosion, and promote conservation and better utilization of water. Assistance will be available for carrying out the following practices during the program year January 1, 1946, through December 31, 1946. To qualify for payment, each practice must be carried out in accordance with the specifications for that practice and be in keeping with good farming practices for the locality.

Except as stated below, the total extent of any practice performed shall be reduced for purposes of payment by the percentage of the total cost of the practice which the county committee determines was furnished by a State or Federal agency. The extent of any practice shall not be reduced because a portion of the cost is represented by materials or services furnished by the F. S. B., or equipment furnished by S. C. S., or materials or services furnished by an agency of a State or political subdivision thereof to another agency or political subdivision of the same State, or trees purchased from a Clark-McNary Cooperative State Nursery.

No payment will be made for the following practices on farms or ranching units having more than 640 acres of noncrop open pasture unless an approved grazing management plan, Form NCR-3A, has been filed with the county committee and unless such plan has been carried out on the unit: Dams for Livestock Water, Wells, Deferred Grazing, and Reseeding Noncrop Open Pasture.

(1) **Contouring intertilled crops for soil and water conservation.**—Contour planting of intertilled crops provided the crop stubble is left standing or a good stand of a winter cover crop is obtained. If there is danger of erosion in waterways, such waterways must be permanently established in sod, except in those cases where the county committee approves temporary protection because of the impracticability of establishing permanent sod during the current year. Contour lines must be laid out with an approved instrument.—**\$1.50 per acre.**

(2) **Contour seeding for soil and water conservation.**—Contour seeding of small grain crops, sorghums, millet, or soybeans. All tillage operations, including plowing, must be on the contour. If there is danger of erosion in waterways, such waterways must be permanently established in sod, except in those cases where the county committee approves temporary protection because of the impracticability of establishing permanent sod during the current year. Contour lines must be laid out with an approved instrument.—**\$0.50 per acre.**

(3) **Contour stripcropping for soil and water conservation.**—Growing alternate strips of intertilled crops with sown, close-drilled, or sod crops, on the contour: *Provided*, (1) the strips are approximately the same width; (2) the strips are not less than 3 rods nor more than 20 rods in width; (3) the crop stubble is left standing, or a sub-surface tillage operation is performed, or a good stand of a winter cover crop is obtained; (4) buffer strips are at least 1 rod in width; and (5) contour lines are laid out with an approved instrument. When it is necessary, because of crop rotations, to have two adjacent strips of sown, close-drilled, or sod crops, credit may be given for the entire field. Credit for the acreage of intertilled crops or small grain crops included in the stripcropping system may be given under practices (1) or (2).

(a) Less than 25 percent of the field in perennial grasses or perennial legumes.—\$1.00 per acre.

(b) 25 percent or more of the field in perennial grasses or perennial legumes.—\$2.50 per acre.

(4) **Field stripcropping to control wind erosion.**—Growing alternate strips of intertilled crops or fallow with sown, close-drilled, or sod crops: *Provided*, (1) the strips are approximately parallel; (2) the strips are laid out at right angles to the prevailing winds or in a continuous “S” so that winds cannot blow parallel to the rows; (3) the strips are not less than 3 rods nor more than 20 rods in width; (4) the crop stubble is left standing or a good stand of a winter cover crop is obtained; and (5) buffer strips are at least 1 rod in width if such strips are used in the system.

(a) Where fallow strips are not used.—\$0.50 per acre.

(b) Where fallow strips are used.—\$0.75 per acre.

(5) **Standard terraces.**—Construction of standard terraces with a settled minimum ridge cross-section of at least 10 square feet above the original ground level. Proper outlets must be provided. The terraces and outlets must conform to the minimum specifications required by the State committee.—\$1.50 per 100 linear feet.

(6) **Broad-base terraces.**—Construction of broad-base terraces with a settled minimum ridge cross-section of at least 12 square feet above the original ground level. Proper outlets must be provided. The terraces and outlets must conform to the minimum specifications required by the State committee.—\$2.00 per 100 linear feet.

(7) **Diversion terraces.**—Construction of diversion terraces for the interception of flood water above a terraced field, or to protect a field against flood water from higher slopes. The cross-section of such diversion terraces is similar to the cross-section of a standard terrace, with side slopes no steeper than 4 to 1, and a minimum height after settlement of 18 inches. The channel must be designed for nonerosive velocities and the average grade must not exceed 4 inches per 100 linear feet, but in no case must the grade exceed 6 inches per 100 feet of length. The channel area must not be less than 1 square foot per acre of drainage up to 20 acres, and one-half square foot per each additional acre, but in no case may the cross-sectional area be less than 5 square feet. The drainage area above the terrace must be in grass or close growing crops. At all outlets or openings where the density of the natural growing sod is not sufficient to spread or otherwise dispose of the water without erosion, riprap, woven wire, or other similar protection must be used.—\$0.08 per cubic yard, but not to exceed \$8 per 100 linear feet.

(8) **Establishing sod waterways.**—Establishing a permanent sod waterway on any cropland where a permanent vegetative cover is necessary in a waterway channel or terrace outlet, or in cultivated



orchards. The channel of the waterway must be sufficiently wide to carry the run-off from the drainage area, and must be at least 1 rod wide at the narrowest point. The channel must be protected by a vegetative cover which may include sweet clover or alfalfa with sod forming grasses.—**\$0.75 per 1,000 square feet.**

(9) **Protecting summer fallow.**—Protecting summer fallowed acreage from wind and water erosion by contour listing, pit cultivation, contour cultivation with a shovel-type implement, cultivation with a rod weeder, or any other implement approved by the county committee and incorporating straw and stubble into the surface soil. Cultivation must be started not later than the date set by the State committee, and must be continued throughout the season in such a manner to prevent weed growth and secure a maximum amount of moisture conservation. No credit will be given for any acreage under this practice for which credit is given under Practice (4), Stripcropping to Control Wind Erosion. No credit may be given for this practice if the acreage to be summer fallowed has been burned except in those cases where the county committee with the approval of the State committee determines that burning was in accordance with good farming practices.—**\$1 per acre.**

(10) **Reseeding noncrop open pasture.**—Improving noncrop open pasture by seeding the following approved grasses and legumes. A satisfactory seedbed must be prepared and grazing deferred until the new seeding has become established.

(a) Seedings consisting of a mixture of timothy, redtop, or sweet clover.—**\$0.08 per pound.**

(b) Seedings consisting of brome grass, blue grama, western wheat grass, crested wheat grass, slender wheat grass, bluestems, sand drop, or buffalo grass. These grasses may be seeded alone or in a mixture containing perennial or biennial legumes, excluding sweet clover.—**\$0.15 per pound.**

(c) Alfalfa or red clover, when used in a mixture containing at least 75 percent perennial grasses.—**\$0.25 per pound.**

(11) **Deferred grazing.**—(Applicable only on farms or ranches having 640 acres or more of noncrop open pasture land.) Natural reseeding of noncrop open pasture by withholding from grazing, for the period May 15, 1946, to August 31, 1946, an acreage normally grazed during the grazing season. The area to be kept free from grazing must be fenced and the fence maintained to prevent the entry of livestock. The acreage of noncrop open pasture in the unit which is not to be deferred must not be pastured to such an extent that it will decrease the stand of grass or injure the forage, tree growth, or watershed. The practice must not be approved on grassland which is included within the same boundary with cropland. An area which does not have an available supply of stock water will not be considered normal grazing land. The practice must not be approved on an area

deferred in 1944 or 1945 unless deferment in 1946 would be of material benefit. Approval for any operator must not be given unless he has sufficient stock to be considered a bona fide livestock operator. If any hay is cut within the boundaries of the deferred area, the acreage on which the hay was cut must be deducted from the deferred area. The operator must file with the county committee a written designation of the area to be deferred.—**\$0.12 per acre on not to exceed 25 percent of the noncrop open pasture in the ranching unit.**

(12) **Dams for livestock water.**—Construction of earthen, concrete, or masonry dams and reservoirs, including enlargement of inadequate earthen structures. Earthen dams must be staked out for the approval of the county committee before construction is started. Earthen dams must be constructed with minimum slopes of 3 to 1 on the upstream side, and 2 to 1 on the downstream side, and must have a crown width of 1 foot for every foot in height of fill, but not to exceed 10 feet. Dams 10 feet or less in height must have a minimum freeboard of 3 feet, and dams over 10 feet in height must have a minimum freeboard of 4 feet. Spillways must be constructed in conformity with the specifications outlined by the State committee. Trickle tubes must be installed where necessary. Fills for the repair of broken dams constructed under previous programs must not be approved for payment in 1946. However, the county committee may require that such dams be repaired before other practices are approved.

Masonry dams must have a sufficiently large weir and a spillway adequate to carry the expected overflow from the drainage area.

(a) For earth or other material moved.—**\$0.10 per cubic yard.**

(b) For concrete or masonry.—**\$9 per cubic yard.**

(c) For rubble masonry.—**\$6 per cubic yard.**

(13) **Dams for erosion control.**—Construction of earthen, concrete, or masonry dams, including the enlargement of inadequate earthen structures, for the prevention of erosion and the protection of farm land from floodwaters. Earthen dams must be staked out for the approval of the county committee before construction is started. Dams having a height of less than 6 feet or draining an area of less than 40 acres must have a minimum top width of 4 feet and minimum side slopes of 2 to 1. Dams having a height of over 6 feet must have a minimum slope of 3 to 1 on the upstream side and 2 to 1 on the downstream side, and must have a crown width of 1 foot for every foot in height of fill, but not exceeding 10 feet. Dams 10 feet or less in height must have a minimum freeboard of 3 feet, and dams over 10 feet in height must have a minimum freeboard of 4 feet.

Vegetative spillways may be used provided the cover and slope are such that erosion will not occur when the spillway is discharging at its maximum capacity. Where the drainage area is in excess of 40

acres the spillways must be constructed in accordance with the minimum specifications outlined by the State committee. For drainage areas of less than 40 acres, the width of the spillway shall be great enough to pass the estimated peak run-off but in no case shall the width be less than 6 feet.

- (a) For earth or other material moved.—\$0.10 per cubic yard.
- (b) For concrete or masonry.—\$9 per cubic yard.
- (c) For rubble masonry.—\$6 per cubic yard.

(14) **Harvesting hayseed.**—Harvesting for seed an acreage of alfalfa, red clover, or alsike clover. Credit will not be given for more than 25 acres per farm.—\$3.50 per acre.

(15) **Weed eradication on cropland.**—Eradication of seriously infested plots of the following weeds: Bindweed, leafy spurge, Canada thistle, perennial pepper grass, Russian knapweed, and dogbane. Payment for this practice may be approved only on farms where approved weed control measures are being carried out on all adjacent infested farms and contiguous land, where the infestation is limited to a single farm, or where the county committee determines there is no likelihood of reinfestation from adjacent or contiguous land. No crop may be taken from the land but the weeds may be cut and removed before tillage is begun.

- (a) By use of sodium chlorate.—\$0.06 per pound.
- (b) By continuous clean tillage.—\$10 per acre.

(16) **Go-down crops.**—Protecting the soil from wind and water erosion by the use of go-down crops, provided a good vegetative growth is obtained and the crop is not pastured or harvested for hay, grain, or forage, or otherwise taken from the land.

(a) **In commercial orchards:** Oats, barley, rye, annual rye grass, wheat or mixtures of any of these crops.—\$1.50 per acre.

(b) **On land where go-down crops are necessary for the protection of adjacent cropland:** Sudan grass, millet, sweet sorghums, or winter rye seeded in the fall of 1945 at the normal rate of seeding for grain.—\$1.50 per acre.

(17) **Green manure crops.**—Disking, plowing under, or subsurface tilling of a good stand and a good growth of the following crops. If the land is subject to erosion and the green manure is turned under in the fall, the land must be protected by a winter cover crop.—\$1.50 per acre.

- (a) Sweet clover.
- (b) Winter rye seeded in the fall of 1945.
- (c) Alsike or red clover turned under in the fall of 1945.

(18) **Construction of open farm drainage ditches.**—Construction or enlargement of open farm drainage ditches (except ditches constructed or maintained by a drainage district), including lateral and lead ditches for which proper outlets are provided, and adequate provision is made for the entrance of water into and out of the ditches.



The ditches must have sufficient capacity to remove the normal excess surface water. No credit will be given for material moved in cleaning the ditch.—**\$0.08 per cubic yard of earth moved**, but not in excess of **\$8 per 100 linear feet**.

(19) **Leveling land for irrigation**.—Leveling land for irrigation in accordance with a written plan.—**\$0.08 per cubic yard**, but not in excess of **\$8 per acre**.

(20) **Covering blow-outs**.—Covering blow-outs with straw or hay to prevent wind erosion and to encourage revegetation.—**\$1 per ton of material used**.

(21) **Listing for erosion control**.—Listing unprotected cropland at right angles to the prevailing winds. No credit will be given for this practice for any acreages for which credit is given under the protecting summer fallow practice, or for any listing which is being performed in connection with a seeding operation.—**\$0.30 per acre**.

(22) **Wells**.—(Applicable only on farms having 640 acres or more of noncrop open pasture). Drilling or digging wells, or deepening wells which have failed to furnish sufficient water for livestock: *Provided*, (1) a windmill or powerplant is installed except where an adequate flow is obtained without mechanical means; (2) the water is conveyed to a tank or storage reservoir; and (3) the well is not developed at or for the use of ranch or farm headquarters. A well driller's statement showing the depth and dimensions of the casings must be provided by the operator.

(a) Wells with casings less than 4 inches in diameter and artesian wells.—**\$1 per foot**.

(b) Wells with casings 4 inches or more in diameter, except artesian wells.—**\$2 per foot**.

(23) **Tillage of cropland for water conservation and control of annual weeds**.—Cultivation of cropland, beginning as soon as possible after the harvest of a small grain crop, but not later than the date set by the State committee, with implements that will leave the crop residue on the surface. Tillage operations should be on the contour. No credit will be given if the acreage is seeded to a 1946 fall sown crop.—**\$0.35 per acre**.

(24) **Tree planting**.—Planting trees in accordance with good tree culture for gully control, or windbreak. All plantings must be protected from fire and grazing. The species and site of the planting must be approved by the county committee. The following species may be approved provided they are adapted to the particular soil type, climatic conditions, moisture conditions, and site.

(a) For gully control: black locust, golden current, mulberry, plum, Chinese elm, oriental raspberry, willow, sandcherry, chokecherry, buffalo berry, green ash and cedar.—**\$1 per 100 trees** but not in excess of **\$7.50 per acre**.



(b) For windbreak: lilac, honeysuckle, common juniper, sandcherry, red cedar, blue spruce, Austrian pine, Russian olive, buffalo berry, ponderosa pine, walnut, mulberry, basswood, green ash, hackberry, honey locust, chokecherry, serviceberry, coffee tree, black locust, catalpa, elm, cottonwood, Chinese elm, white willow, plum, and Nanking cherry. Shrubs may be required but no credit may be given.—\$2 per 100 trees.

(25) **Maintaining a stand of trees in a windbreak planting.**—Maintaining a good stand of at least 250 trees per acre, planted between January 1, 1941, and January 1, 1946, by cultivating sufficiently to control other vegetation, protecting from fire and grazing and replanting if necessary.—\$3 per acre.

(26) **Establishment of permanent cover on cropland.**—Establishing a permanent vegetative cover on cropland which is to be retired to noncrop open pasture. A satisfactory seedbed must be prepared and the new seeding protected from grazing until a good stand has been obtained. The following permanent pasture mixtures will qualify.

(a) 12 pounds of brome grass and 3 to 4 pounds of alfalfa.—\$2.75 per acre.

(b) 7 to 10 pounds of crested wheat grass and 2 to 3 pounds of western wheat grass.—\$1.25 per acre.

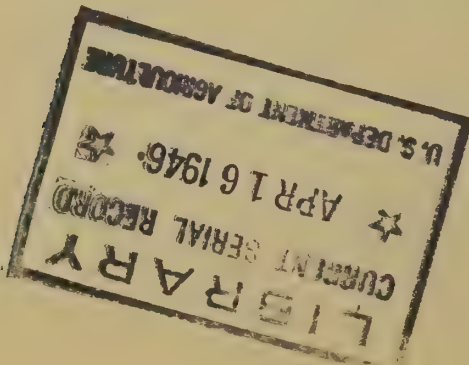
(c) 10 pounds of blue gramma, 3 pounds of side oats gramma, and 1 pound of buffalo grass. Buffalo grass should not be used on sandy soils.—\$3.25 per acre.

(d) 10 pounds of big bluestem, 2 pounds of switch grass, and 3 pounds of side oats gramma.—\$3.00 per acre.

(e) In sandy areas only. 8 pounds of bluestem, 2 pounds of switch grass, 2 pounds of sandlove grass, and 3 pounds of side oats grams or blue gramma.—\$3.00 per acre.

### C. POOLING AGREEMENTS

Producers in any local area may agree in writing, with the approval of the county and State committees, to cooperatively perform the following practice on one or more of the farms operated by such producers, provided all of their farms are benefited by the performance of such practice: Practice (18) Construction of Open Farm Ditches. Instructions for carrying out a pooling agreement are contained in NCR-46-2.



## UNITED STATES DEPARTMENT OF AGRICULTURE

## PRODUCTION AND MARKETING ADMINISTRATION

## FIELD SERVICE BRANCH

Washington, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

**OHIO COMMITTEEMAN'S PRACTICE HANDBOOK**

The 1946 Farm Program is designed to assist the farmers of Ohio to the fullest possible extent in protecting their soils against damage from erosion and loss of fertility.

The county committee will designate those practices which will be approved for payment in the county in order that the available funds will be used most effectively to bring about increased conservation. Written approval by the county committee must be obtained for each practice to be performed on any individual's farm, prior to the carrying out of such practice except that practices performed before April 1, 1946, may be approved retroactively by the county committee.

**A. FUNDS AVAILABLE FOR CONSERVATION PRACTICES ON INDIVIDUAL FARMS**

The county and community committeemen will determine for each farm, on the basis of the conservation needs and farmer's intentions, maximum payments for each practice approved for the farm. The sum of the maximum payments approved cannot exceed the county limits approved for this purpose by the State Committee. Official notice of such approval will be forwarded to the operator and other parties interested in the operation of the farm.

**B. CONSERVATION PRACTICES**

The practices available for 1946 are those which are most needed in order to conserve and improve soil fertility, improve pasture land, prevent wind and water erosion, and promote conservation and better utilization of water. Assistance will be available for carrying out the following practices during the program year January 1, 1946, through December 31, 1946. To qualify for payment, each practice must be carried out in accordance with the specifications for that practice and be in keeping with good farming practices for the locality.

Except as stated below, the total extent of any practice performed shall be reduced for purposes of payment by the percentage of the total cost of the practice which the county committee determines was furnished by a State or Federal agency. The extent of any practice shall not be reduced because a portion of the cost is represented by materials or services furnished by the F. S. B., or equipment furnished by S. C. S., or materials or services furnished by an agency of a State or political subdivision thereof to another agency or political subdivision of the same State, or trees purchased from a Clark-McNary Cooperative State Nursery.

(1) **Contouring Intertilled Crops.**—Contour farming of intertilled crops on sloping land, provided the crop stubble is left standing or a good stand of a winter cover crop is obtained. If there is danger of erosion in waterways, such waterways must be permanently established in sod. Contour lines must be laid out with an approved instrument. No credit will be given for this practice for any acreage qualifying under Practice (3), Contour Stripcropping.—**\$1.50 per acre.**

(2) **Contour Seeding.**—Contour seeding of small grain crops, sorghums, millet, Sudan grass, or soybeans on sloping land. All operations, including plowing, in connection with the seeding must be on the contour. Contour lines must be laid out with an approved instrument. If there is danger of erosion in waterways, such waterways must be permanently established in sod. No credit will be given for this practice for any acreage qualifying under Practice (3), Contour Stripcropping.—**\$0.50 per acre.**

(3) **Contour Stripcropping.**—Growing alternate strips of intertilled crops with sown, close-drilled or sod crops, or alternate strips of small grain crops with sod crops on the contour, provided: (1) the strips are approximately the same width; (2) the strips are not less than 2 rods nor more than 10 rods in width; (3) the crop stubble is left standing or a good stand of a winter cover crop is obtained; and (4) contour lines are established with an approved instrument.—**\$1.50 per acre.**

(4) **Field Stripcropping to Control Water Erosion.**—Growing alternate strips of intertilled crops with sown, close-drilled or sod crops, or alternate strips of small grain crops with sod crops, provided: (1) the strips are approximately parallel and are laid out across the general slope; (2) the strips are approximately the same width; (3) the strips are not less than 2 rods nor more than 10 rods in width; (4) the crop stubble is left standing or a good stand of a winter cover crop is obtained; and (5) contour stripcropping is impracticable. Approval must not be given for this practice on fields containing over 40 acres.—**\$0.75 per acre.**

(5) **Standard Terraces.**—Construction of standard terraces with a settled minimum ridge cross-section of 8 square feet above the original ground level. Proper outlets must be provided. The terraces and outlets must conform to the minimum specifications required by the State Committee.—**\$1.25 per 100 linear feet.**

(6) **Diversion Terraces.**—Construction of diversion terraces with a settled minimum ridge cross-section of 10 square feet above the original ground level. Proper outlets must be provided. The terraces and outlets must conform with the minimum specifications required by the State Committee.—**\$0.08 per cubic yard**, but not in excess of **\$8.00 per 100 linear feet.**

(7) **Establishing Sod Waterways.**—Establishing a permanent sod waterway on any cropland devoted to intertilled crops or small grain crops where a vegetative cover is necessary in a waterway channel or in terrace outlets or cultivated orchards. The channel of the waterway must be sufficiently wide to carry the run-off from the drainage area and must be at least 10 feet wide at the narrowest point. The edges of the waterway must be broken sufficiently to prevent edge erosion. The channel must contain perennial grasses and a good vegetative growth must be obtained.—**\$0.75 per 1,000 square feet.**



(8) **Seeding Pastures.**—Reseeding depleted noncrop open pasture land or establishing pasture on land which will be used solely for pasture purposes by carrying out all of the following: (1) Applying lime and fertilizer in necessary amounts; (2) disking, springtoothing, or plowing the land to prepare a good seedbed; (3) making a full seeding of one of the mixtures listed below; (4) delaying grazing until a good growth has been obtained, controlling grazing during the remainder of the pasture season, and removing stock early enough in the fall to permit a good growth of the pasture before winter; and (5) mowing weeds to control growth and seed formation.

(a) Seedings of ladino clover, or southern grown white clover, or a mixture of these crops. Bluegrass seed may be included in the mixture but no credit will be given for the bluegrass.—**\$0.40 per pound.**

(b) Seedings of biennial and perennial legumes and perennial grasses which must contain at least 4 pounds of alfalfa seed per acre. No credit will be given for any sweet clover, timothy, or redtop which is included in the mixture.—**\$0.25 per pound.**

(c) Seedings of a mixture of biennial and perennial legumes and perennial grasses which may include sweet clover, timothy, bluegrass, or redtop.—**\$0.10 per pound.**

(d) For disking, springtoothing, or plowing to prepare the seedbed.—**\$0.75 per acre.**

(9) **Dams and Reservoirs for Livestock Water.**—Construction of earthen, concrete, or masonry dams and reservoirs on approved sites for providing water for livestock. Earthen dams must be constructed with minimum slopes of 3 to 1 on the upstream side and 2 to 1 on the downstream side and must have a crown width of 1 foot for every foot in height of fill but not exceeding a width of 10 feet. Dams of 10 feet or less in height must have a minimum freeboard of 3 feet. Dams over 10 feet in height must have a minimum freeboard of 4 feet. Spillways must be of sufficient width to carry the expected overflow from the drainage area. The water in the pond must have an average depth of 4 feet when full or must be at least 7 feet in depth at the deepest point. The dam and pond must be fenced to protect the project from livestock.

(a) For earth or other material moved—**\$0.12 per cubic yard.**

(b) For concrete or masonry—**\$9.00 per cubic yard.**

(c) For rubble masonry—**\$6.00 per cubic yard.**

(10) **Green Manure Crops.**—Disking or plowing under a good stand and a good growth of the following crops. If the land is subject to erosion and the green manure is turned under in the fall, the land must be protected by a winter cover crop.—**\$1.50 per acre.**

(a) Winter barley or winter rye seeded in the fall of 1945.

(b) Winter vetch, crimson clover, or ryegrass seeded in the fall of 1945.

(c) Sweet clover.

(11) **Harvesting Hayseed.**—Harvesting for seed an acreage of alfalfa, red clover, or alsike clover. Credit will not be given for more than 25 acres per farm.—**\$3.50 per acre.**

(12) **Construction of Open Farm Drainage Ditches.**—Construction or enlargement of open farm drainage ditches (excepting those constructed or maintained by the township or county), including lateral and lead ditches, for which proper outlets are provided, and adequate provision is made for the entrance of water into and out of the ditch. The ditch must have sufficient capacity to remove the nor-



mal excess surface water. Credit will not be given for material moved in cleaning the ditch.—**\$0.08 per cubic yard**, but not in excess of **\$8.00 per 100 linear feet**.

(13) **Excavation of Ditches for Tile Drainage.**—Excavation of ditches for the installation of tile drains, provided the size of tile, outlets and gradient meet the specifications for drainage as recommended by the U. S. Department of Agriculture. No credit will be given if any part of the tile lines is to be used for any purpose other than the draining of agricultural land.—**\$0.40 per rod**.

(14) **Weed Eradication on Cropland.**—Eradication of seriously infested plots of Canada thistle or European bindweed. Credit for this practice may be given only where approved weed control measures are being carried out on all adjacent infested farms and contiguous land, where the infestation is limited to a single farm, or where the county committee determines there is no likelihood of reinfestation from adjacent or contiguous land. No crop may be taken from the land but the weeds may be cut and removed before tillage is begun.

(a) For sodium chlorate or other chemicals approved by the State Committee.—**\$0.06 per pound**.

(b) For continuous clean tillage.—**\$10.00 per acre**.

(15) **Tree Planting.**—Planting trees for forestry purposes, gully control, or windbreak, in accordance with good tree culture. The site and species of trees to be planted must have the approval of the county committee. The plantings must be protected from fire and grazing. The following species may be approved provided they are adapted to the site, particular soil type, climatic conditions, and moisture conditions: Yellow poplar, sugar maple, basswood, green oak, black walnut, black locust, hardy catalpa, eastern white pine, shortleaf pine, Virginia pine, pitch pine, eastern red pine, butternut, shagbark hickory, mockernut hickory, pignut hickory, white oak, red oak, black oak, red maple, white ash, green ash, red pine and Scotch pine.

(a) For forest purposes.—**\$1.00 per 100 trees**, but not in excess of **\$7.50 per acre**.

(b) For gully control.—**\$1.00 per 100 trees**, but not in excess of **\$7.50 per acre**.

(c) For windbreak.—**\$2.00 per 100 trees**.

(16) **Mulching Materials.**—Application of small grain straw, bean straw, shredded corn stover, ground corn cobs, sawdust, clover or grass hay and crop residue obtained from harvesting legumes or grass for seed, in commercial orchards, in vineyards, or on strawberries or other small fruit.—**\$4.00 per ton**.

(17) **Liming Materials.**—(Credit rates are contained in NCR-46-1, Supplement 1, Ohio.) Application of the following materials:

(a) One ton of agricultural limestone meal, agricultural slag meal, ground limestone, ground slag, pulverized limestone, pulverized slag, superfine limestone, or superfine slag containing calcium and magnesium carbonate equivalent to not less than 80% calcium carbonate. The material must be ground sufficiently fine so that 80 percent, including all of the finer particles obtained in the grinding process, will pass through a U. S. Standard No. 8 sieve and 20 percent will pass through a U. S. Standard No. 100 sieve. The moisture content at the time of shipment must not exceed 8 percent. The calcium carbonate equivalent and the percent passing through a U. S. Standard No. 8 sieve must be at least 80 and one or both must be greater than 80 so that the multiplication of the percent of calcium carbonate equivalent by the percent of material passing through a U. S. Standard No. 8 sieve will be equal to or in excess of 0.72.

(b) One ton of No. 2 limestone containing calcium and magnesium carbonate equivalent equal to not less than 60 percent of calcium carbonate and ground sufficiently fine so that 90 percent, including all of the finer particles obtained in the grinding process, will pass through a U. S. Standard No. 8 sieve and 20 percent will pass through a U. S. Standard No. 100 sieve. The moisture content at the time of shipment must not exceed 8 percent.

(c) One ton of calcium carbide refuse lime containing at least 85 percent of calcium carbonate and testing not more than 35 percent moisture at the shipping point.

(d) One ton of blast furnace slag containing at least 80 percent calcium carbonate equivalent and ground sufficiently so that 80 percent will pass through a U. S. Standard No. 8 sieve.

(e) One cubic yard of marl containing at least 70 percent calcium carbonate equivalent.

(f) One cubic yard of sugar beet refuse lime containing at least 70 percent calcium carbonate equivalent.

(g) One ton of commercial burnt lime containing at least 90 percent calcium carbonate equivalent and testing not more than 20 percent moisture at the loading point.

(h) One ton of home burnt lime.

(i) One ton of hydrated lime.

(j) One cubic yard of water softening process lime containing at least 70 percent calcium carbonate equivalent.

(k) One ton of limestone screenings containing at least 80 percent calcium carbonate equivalent. A correspondingly greater amount of material must be required if the material does not meet the specifications.

(18) **Fertilizer.**—Application of superphosphate, defluorinated phosphate rock or potash to: (1) **pastures**; (2) **new seedings** of biennial or perennial legumes, perennial grasses, winter legumes or lespedeza, with or without a nurse crop; (3) to **old stands** of biennial and perennial legumes or perennial grasses provided the acreage on which such applications are made is not devoted to, cultivated for, or plowed for any other crop prior to January 1, 1947; and (4) to **green manure and cover crops** in orchards. No credit will be given for material furnished by the Government if wheat is used as a nurse crop.

(a) Application of superphosphate or defluorinated phosphate rock.—\$3.50 per 100 pounds of available  $P_2O_5$ .

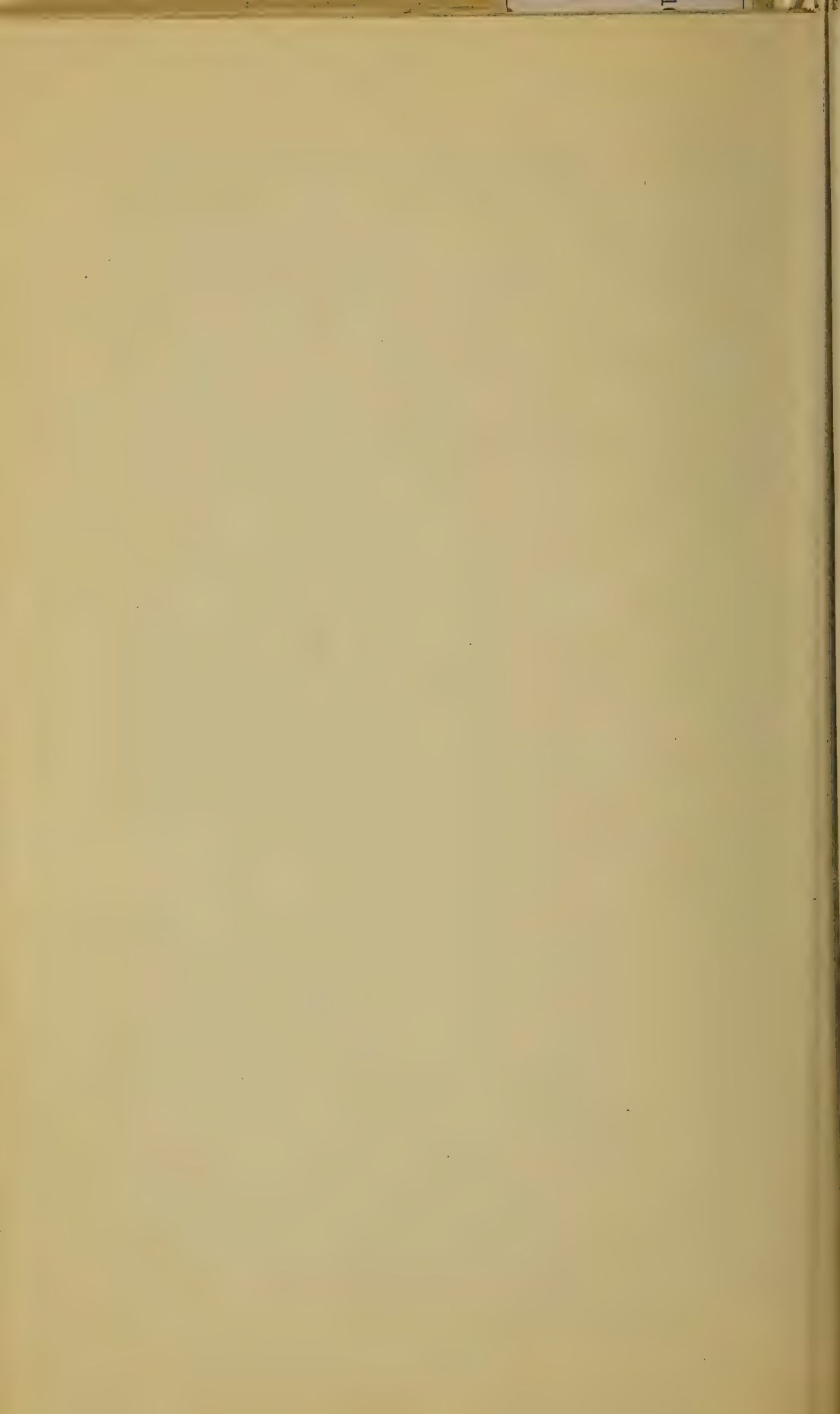
(b) Application of potash.—\$2.50 per 100 pounds of available  $K_2O$ .

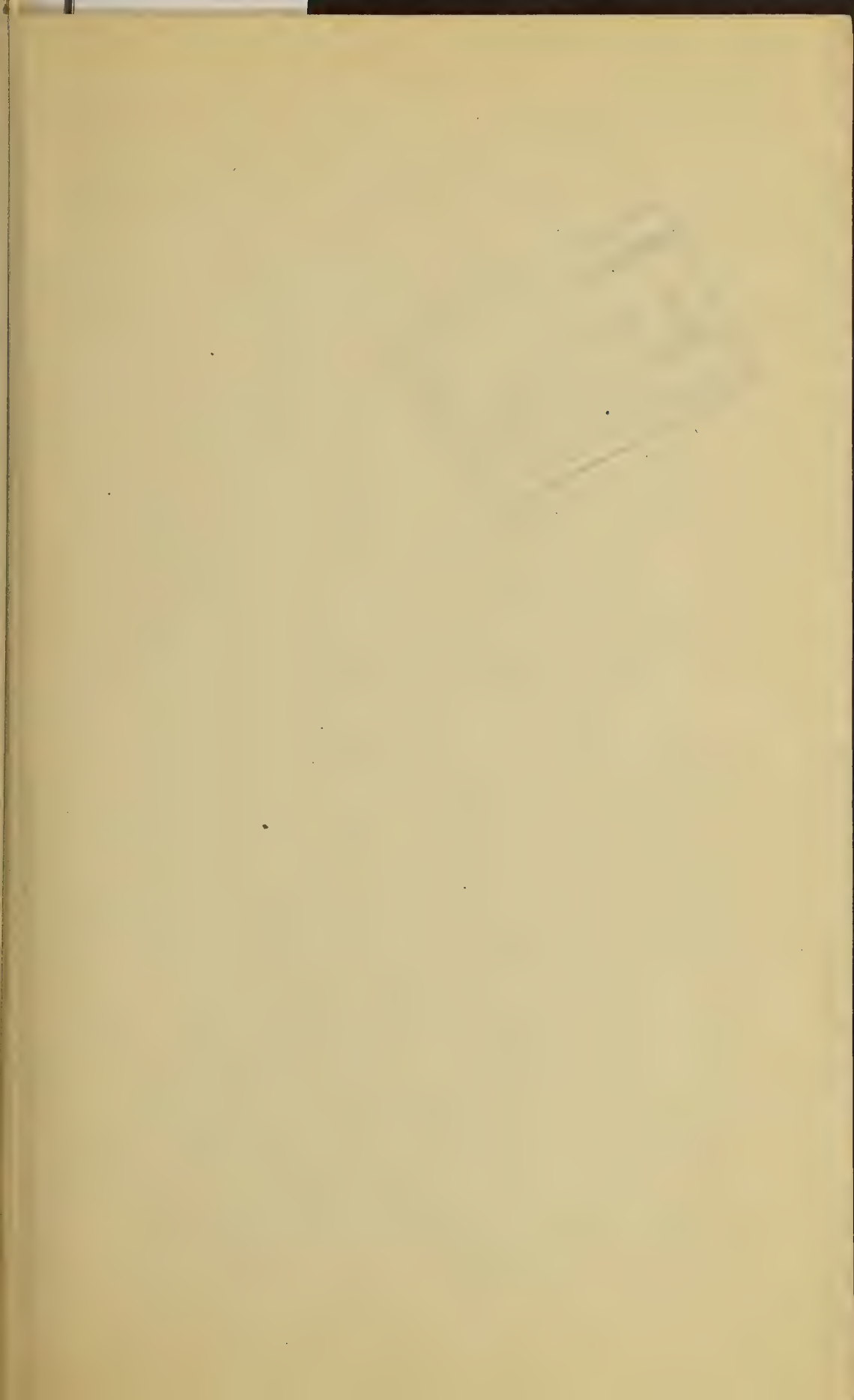
(c) 100 lbs. of 0-9-27-----	\$1.00	(m) 100 lbs. of 2-12-6----	\$0.60
(d) 100 lbs. of 0-10-20----	.80	(n) 100 lbs. of 3-9-18----	.80
(e) 100 lbs. of 0-12-12----	.70	(o) 100 lbs. of 3-12-12----	.70
(f) 100 lbs. of 0-14-7-----	.70	(p) 100 lbs. of 3-18-9-----	.90
(g) 100 lbs. of 0-14-14----	.80	(q) 100 lbs. of 4-10-6-----	.50
(h) 100 lbs. of 0-18-0-----	.60	(r) 100 lbs. of 4-16-0-----	.60
(i) 100 lbs. of 0-19-0-----	.70	(s) 100 lbs. of 5-10-10----	.60
(j) 100 lbs. of 0-20-0-----	.70	(t) 100 lbs. of 8-8-8-----	.50
(k) 100 lbs. of 0-20-10----	.90	(u) 100 lbs. of 10-6-4-----	.30
(l) 100 lbs. of 0-20-20----	1.20		

(19) **Fertilizer.**—Application of rock phosphate, containing at least 30 percent phosphoric acid, to any crop.—\$0.45 per 100 pounds.

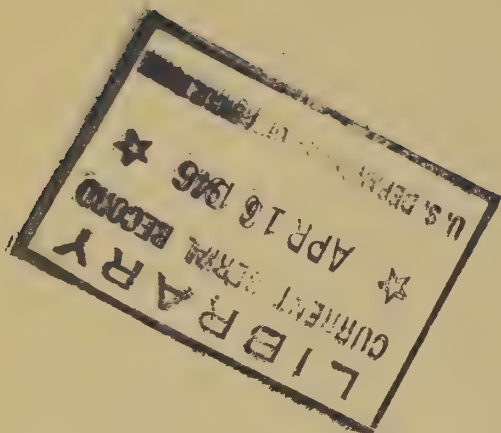
### C. POOLING AGREEMENTS

Producers in any local area may agree in writing, with the approval of the County and State Committees, to cooperatively perform the following practices on one or more of the farms operated by such producers, provided all of their farms are benefited by the performance of such practices: Practice (12), Construction of Open Farm Drainage Ditches, Practice (13), Excavation of Ditches for Tile Drainage, or Practice (14), Weed Eradication. Instructions for carrying out a pooling agreement are contained in NCR-46-2.









176  
12  
5-13

UNITED STATES DEPARTMENT OF AGRICULTURE  
PRODUCTION AND MARKETING ADMINISTRATION  
FIELD SERVICE BRANCH—WASHINGTON, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

SUPPLEMENT 1 TO OHIO COMMITTEEMAN'S PRACTICE HANDBOOK

1946 CREDIT RATES FOR LIMING MATERIALS—OHIO

Following are the materials for which the credit rates are the same throughout the State:

Type of material	Credit rate
Calcium carbide refuse lime	\$1.50 per ton.
Water-softening process lime	.70 per cu. yd.
Marl	1.00 per cu. yd.
Sugarbeet refuse lime	.80 per cu. yd.
Commercial burnt lime	4.00 per ton.
Home burnt lime	1.00 per ton.
Hydrated lime	4.00 per ton.
Limestone screenings	.50 per ton.

The following are the credit rates per ton for the other materials for which credit will be given in your county.

ADAMS COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Bratton	\$1.50	Liberty	\$1.90	Scott	\$1.70
Brush Creek	1.80	Manchester	2.00	Sprigg	2.00
Franklin	1.50	Meigs	1.50	Tiffin	1.70
Green	2.00	Monroe	2.00	Wayne	1.90
Jefferson	1.90	Oliver	1.80	Winchester	1.90

ALLEN COUNTY

Amanda	\$1.00	Jackson	\$1.20	Richland	\$1.00
American	1.30	Marion	1.00	Shawnee	1.30
Auglaize	1.40	Monroe	1.20	Spencer	1.00
Bath	1.20	Perry	1.40	Sugar Creek	1.30

ASHLAND COUNTY

Clear Creek	\$2.00	Mifflin	\$2.20	Perry	\$2.30
Green	2.30	Milton	2.10	Ruggles	1.90
Hanover	2.30	Mohican	2.40	Sullivan	2.10
Jackson	2.10	Montgomery	2.10	Troy	2.00
Lake	2.30	Orange	2.10	Vermilion	2.30

ASHTABULA COUNTY

Township	Limestone
All townships	\$2.20

ATHENS COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Alexander	\$2.30	Carthage	\$2.40	Trimble	\$2.20
Ames	2.30	Dover	2.30	Troy	2.40
Athens	2.20	Lee	2.20	Waterloo	2.40
Bern	2.30	Lodi	2.40	York	2.30
Canaan	2.30	Rome	2.40		

## AUGLAIZE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Clay.....	\$2.00	Logan.....	\$1.50	Salem.....	\$1.60
Duchouquet.....	1.70	Moulton.....	1.60	Union.....	1.90
German.....	2.00	Noble.....	1.60	Washington.....	1.70
Goshen.....	2.10	Pusheta.....	1.70	Wayne.....	2.10
Jackson.....	2.10	St. Marys.....	1.70		

## BELMONT COUNTY

Township	Lime-stone	Blast fur-nace slag	Township	Lime-stone	Blast fur-nace slag
Colerain.....	\$2.40	\$1.70	Smith.....	\$2.50	\$1.80
Flushing.....	2.50	1.80	Somerset.....	2.60	1.80
Goshen.....	2.50	1.80	Union.....	2.50	1.80
Kirkwood.....	2.60	1.80	Warren.....	2.50	1.80
Mead.....	2.60	1.80	Washington.....	2.60	1.80
Pease.....	2.40	1.70	Wayne.....	2.50	1.80
Pultney.....	2.60	1.80	Wheeling.....	2.50	1.80
Richland.....	2.50	1.80	York.....	2.60	1.80

## BROWN COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Byrd.....	\$2.20	Jackson.....	\$2.20	Pleasant.....	\$2.30
Clark.....	2.10	Jefferson.....	2.20	Scott.....	2.10
Eagle.....	2.10	Lewis.....	2.30	Sterling.....	2.10
Franklin.....	2.20	Perry.....	2.20	Union.....	2.40
Green.....	2.10	Pike.....	2.10	Washington.....	2.10
Huntington.....	2.40				

## BUTLER COUNTY

Fairfield.....	\$1.70	Milford.....	\$2.10	Ross.....	\$1.70
Hanover.....	2.00	Morgan.....	1.70	St. Clair.....	2.10
Lemon.....	2.00	Oxford.....	2.10	Union.....	1.70
Liberty.....	1.70	Reily.....	1.90	Wayne.....	2.10
Madison.....	2.10				

## CARROLL COUNTY

Augusta.....	\$2.30	Harrison.....	\$2.40	Perry.....	\$2.30
Brown.....	2.20	Lee.....	2.40	Rose.....	2.30
Center.....	2.20	Loudon.....	2.40	Union.....	2.30
East.....	2.40	Monroe.....	2.30	Washington.....	2.50
Fox.....	2.50	Orange.....	2.30		

## CHAMPAIGN COUNTY

Township	Limestone
All townships.....	\$1.80

## CLARK COUNTY

All townships.....	\$1.90
--------------------	--------

## CLERMONT COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Batavia.....	\$1.20	Monroe.....	\$1.30	Union.....	\$1.20
Franklin.....	1.60	Ohio.....	1.30	Washington.....	1.60
Goshen.....	1.30	Pierce.....	1.20	Wayne.....	1.60
Jackson.....	1.30	Stonelick.....	1.30	Williamsburg.....	1.40
Miami.....	1.20	Tate.....	1.30		

## CLINTON COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Adams.....	\$1.50	Liberty.....	\$1.60	Washington.....	\$1.60
Chester.....	1.60	Marion.....	1.70	Wayne.....	1.50
Clark.....	1.60	Richland.....	1.40	Wilson.....	1.40
Green.....	1.50	Union.....	1.50		
Jefferson.....	1.70	Vernon.....	1.60		

## COLUMBIANA COUNTY

Township	Limestone	Blast furnace slag
All townships.....	\$2.20	\$1.50

## COSHOCTON COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Adams.....	\$2.30	Keene.....	\$2.30	Pike.....	\$2.40
Bedford.....	2.50	Lafayette.....	2.20	Tiverton.....	2.30
Bethlehem.....	2.30	Linton.....	2.60	Tuscarawas.....	2.20
Clark.....	2.20	Mill Creek.....	2.40	Virginia.....	2.50
Crawford.....	2.30	Monroe.....	2.30	Washington.....	2.50
Franklin.....	2.50	Newcastle.....	2.30	White Eyes.....	2.30
Jackson.....	2.30	Oxford.....	2.30		
Jefferson.....	2.30	Perry.....	2.40		

## CRAWFORD COUNTY

Auburn.....	\$1.60	Jackson.....	\$1.60	Texas.....	\$1.30
Bucyrus.....	1.30	Jefferson.....	1.50	Tod.....	1.30
Chatfield.....	1.40	Liberty.....	1.40	Vernon.....	1.60
Cranberry.....	1.50	Lykens.....	1.40	Whetstone.....	1.50
Dallas.....	1.40	Polk.....	1.60		
Holmes.....	1.30	Sandusky.....	1.50		

## CUYAHOGA COUNTY

Township	Limestone	Blast furnace slag
All townships.....	\$2.00	\$1.40

## DARKE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Adams.....	\$1.90	Jackson.....	\$2.10	Twin.....	\$1.60
Allen.....	1.30	Liberty.....	1.90	Van Buren.....	1.80
Brown.....	2.00	Mississinawa.....	1.30	Wabash.....	1.30
Butler.....	1.60	Monroe.....	1.60	Washington.....	2.00
Franklin.....	1.80	Neave.....	1.80	Wayne.....	2.10
Greenville.....	1.90	Patterson.....	1.30	York.....	1.80
Harrison.....	1.80	Richland.....	2.00		

## DEFIANCE COUNTY

Township	Limestone
All townships.....	\$2.10

## DELAWARE COUNTY

Berkshire.....	\$1.50	Harlem.....	\$1.70	Porter.....	\$1.70
Berlin.....	1.40	Kingston.....	1.50	Radnor.....	1.30
Brown.....	1.40	Liberty.....	1.20	Scioto.....	1.20
Concord.....	1.10	Marlboro.....	1.40	Thompson.....	1.40
Delaware.....	1.30	Orange.....	1.40	Trenton.....	1.50
Genoa.....	1.60	Oxford.....	1.50	Troy.....	1.40

## ERIE COUNTY

Berlin.....	\$1.30	Huron.....	\$1.20	Oxford.....	\$1.20
Florence.....	1.40	Margaretta.....	1.20	Perkins.....	1.10
Groton.....	1.20	Milan.....	1.30	Vermilion.....	1.40



## FAIRFIELD COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Amanda.....	\$1.80	Hocking.....	\$2.10	Rush Creek.....	\$2.40
Berne.....	2.30	Liberty.....	1.80	Violet.....	1.70
Bloom.....	2.00	Madison.....	2.30	Walnut.....	1.80
Clear Creek.....	2.10	Pleasant.....	1.80		
Greenfield.....	1.90	Richland.....	2.10		

## FAYETTE COUNTY

Concord.....	\$1.50	Madison.....	\$1.70	Union.....	\$1.60
Green.....	1.50	Marion.....	1.60	Wayne.....	1.50
Jasper.....	1.60	Paint.....	1.70		
Jefferson.....	1.70	Perry.....	1.50		

## FRANKLIN COUNTY

Blendon.....	\$1.70	Jefferson.....	\$1.80	Plain.....	\$1.80
Brown.....	1.60	Madison.....	1.80	Pleasant.....	1.70
Clinton.....	1.60	Marion.....	1.70	Prairie.....	1.50
Franklin.....	1.50	Mifflin.....	1.70	Sharon.....	1.50
Hamilton.....	1.70	Norwich.....	1.50	Truro.....	1.80
Jackson.....	1.60	Perry.....	1.40	Washington.....	1.40

## FULTON COUNTY

Amboy.....	\$1.80	Franklin.....	\$2.20	Pike.....	\$1.80
Chesterfield.....	2.10	Fulton.....	1.60	Royalton.....	1.90
Clinton.....	1.80	German.....	2.10	Swan Creek.....	1.60
Dover.....	1.90	Gorham.....	2.40	York.....	1.80

## GALLIA COUNTY

Addison.....	\$2.20	Greenfield.....	\$2.40	Ohio.....	\$2.60
Cheshire.....	2.20	Guyan.....	2.60	Perry.....	2.40
Clay.....	2.40	Harrison.....	2.40	Raccoon.....	2.00
Gallipolis.....	2.20	Huntington.....	1.90	Springfield.....	2.00
Green.....	2.20	Morgan.....	1.90	Walnut.....	2.60

## GEAUGA COUNTY

Township	Limestone
All townships.....	\$2.20

## GREENE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Bath.....	\$1.90	Jefferson.....	\$1.60	Silver Creek.....	\$1.70
Beaver Creek.....	1.90	Miami.....	1.90	Spring Valley.....	1.90
Caesar Creek.....	1.90	New Jasper.....	2.00	Sugar Creek.....	2.00
Cedarville.....	1.90	Ross.....	1.80	Xenia.....	1.80

## GUERNSEY COUNTY

Adams.....	\$2.00	Londonderry.....	\$2.60	Valley.....	\$2.10
Cambridge.....	2.00	Madison.....	2.30	Washington.....	2.50
Center.....	2.10	Millwood.....	2.40	Westland.....	2.00
Jackson.....	2.10	Monroe.....	2.50	Wheeling.....	2.30
Jefferson.....	2.30	Oxford.....	2.40	Wills.....	2.30
Knox.....	2.20	Richland.....	2.30		
Liberty.....	2.40	Spencer.....	1.90		

## HAMILTON COUNTY

Anderson.....	\$1.20	Delhi.....	\$1.40	Springfield.....	\$1.50
Colerain.....	1.40	Green.....	1.40	Sycamore.....	1.40
Columbia.....	1.30	Harrison.....	1.50	Symmest.....	1.40
Crosby.....	1.50	Miami.....	1.40	Whitewater.....	1.30

## HANCOCK COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Allen.....	\$1.40	Eagle.....	\$1.20	Pleasant.....	\$1.40
Amanda.....	1.40	Jackson.....	1.30	Portage.....	1.40
Biglick.....	1.40	Liberty.....	1.20	Union.....	1.10
Blanchard.....	1.40	Madison.....	1.40	Van Buren.....	1.20
Cass.....	1.40	Marion.....	1.20	Washington.....	1.40
Delaware.....	1.40	Orange.....	1.10		

## HARDIN COUNTY

Blanchard.....	\$1.30	Hale.....	\$1.40	Marion.....	\$1.40
Buck.....	1.10	Jackson.....	1.30	Pleasant.....	1.20
Cessna.....	1.30	Liberty.....	1.40	Roundhead.....	1.40
Dudley.....	1.30	Lynn.....	1.20	Taylor Creek.....	1.20
Goshen.....	1.30	McDonald.....	1.30	Washington.....	1.40

## HARRISON COUNTY

Archer.....	\$2.40	Gerran.....	\$2.40	Nottingham.....	\$2.60
Athens.....	2.60	Green.....	2.40	Rumley.....	2.20
Cadiz.....	2.50	Monroe.....	2.40	Short Creek.....	2.60
Franklin.....	2.60	Moorefield.....	2.50	Stock.....	2.60
Freeport.....	2.50	North.....	2.20	Washington.....	2.60

## HENRY COUNTY

Bartlow.....	\$1.10	Liberty.....	\$1.90	Pleasant.....	\$1.50
Damascus.....	1.00	Marion.....	1.30	Richfield.....	1.00
Flatrock.....	1.40	Monroe.....	1.10	Ridgeville.....	2.00
Freedom.....	1.90	Napoleon, North.....	1.90	Washington.....	1.70
Harrison.....	1.10	Napoleon, South.....	1.30		

## HIGHLAND COUNTY

Brush Creek.....	\$1.80	Jackson.....	\$1.80	Penn.....	\$1.70
Clay.....	1.80	Liberty.....	1.40	Salem.....	1.70
Concord.....	1.80	Madison.....	1.60	Union.....	1.40
Dodson.....	1.50	Marshall.....	1.80	Washington.....	1.80
Fairfield.....	1.70	New Market.....	1.40	White Oak.....	2.10
Hamer.....	1.60	Paint.....	1.70		

## HOCKING COUNTY

Township	Limestone
All townships.....	\$2.40

## HOLMES COUNTY

All townships.....	\$2.20
--------------------	--------

## HURON COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Bronson.....	\$1.30	Lyme.....	\$1.20	Ridgefield.....	\$1.30
Clarksfield.....	1.60	New Haven.....	1.50	Ripley.....	1.70
Fairfield.....	1.40	New London.....	1.80	Sherman.....	1.30
Fitchville.....	1.60	Norwalk.....	1.30	Townsend.....	1.40
Greenfield.....	1.50	Norwich.....	1.40	Wakeman.....	1.70
Greenwich.....	1.70	Peru.....	1.30		
Hartland.....	1.50	Richmond.....	1.40		

## JACKSON COUNTY

Township	Limestone	Blast furnace slag
All townships.....	\$2.20	\$1.20

## JEFFERSON COUNTY

All townships.....	\$2.60	\$1.60
--------------------	--------	--------

## KNOX COUNTY

Township	Limestone
All townships.....	\$2.30

## LAKE COUNTY

Township	Limestone	Blast furnace slag
All townships.....	\$2.00	\$1.40

## LAWRENCE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Aid.....	\$1.90	Lawrence.....	\$1.90	Union.....	\$2.20
Decatur.....	1.70	Mason.....	2.10	Upper.....	1.70
Elizabeth.....	1.70	Perry.....	2.10	Washington.....	2.10
Fayette.....	2.10	Rome.....	2.30	Windsor.....	2.20
Hamilton.....	1.70	Symmes.....	2.00		

## LICKING COUNTY

Bennington.....	\$2.00	Harrison.....	\$2.00	Mary Ann.....	\$2.30
Bowling Green.....	2.10	Hartford.....	2.00	Monroe.....	1.90
Burlington.....	2.20	Hopewell.....	2.10	Newark.....	2.20
Eden.....	2.30	Jersey.....	1.90	Newton.....	2.30
Etna.....	2.00	Liberty.....	1.90	Perry.....	2.30
Fallsburg.....	2.30	Licking.....	2.20	St. Albans.....	1.90
Franklin.....	2.10	Lima.....	1.90	Union.....	2.10
Granville.....	2.00	McKean.....	2.20	Washington.....	2.30
Hanover.....	2.30	Madison.....	2.30		

## LOGAN COUNTY

Bloomfield.....	\$1.40	McArthur.....	\$1.00	Rushcreek.....	\$1.30
Bokes Creek.....	1.40	Miami.....	1.40	Stokes.....	1.40
Harrison.....	1.40	Monroe.....	1.40	Union.....	1.40
Jefferson.....	1.40	Perry.....	1.40	Washington.....	1.40
Lake.....	1.20	Pleasant.....	1.40	Zane.....	1.40
Liberty.....	1.40	Richland.....	1.20		

## LORAIN COUNTY

Amherst.....	\$1.40	Columbia.....	\$1.70	Pittsfield.....	\$1.60
Avon.....	1.30	Eaton.....	1.60	Ridgeville.....	1.50
Avon Lake.....	1.30	Elyria.....	1.40	Rochester.....	1.70
Black River.....	1.30	Grafton.....	1.70	Russia.....	1.50
Brighton.....	1.60	Henrietta.....	1.50	Sheffield.....	1.30
Brownhelm.....	1.40	Huntington.....	1.70	Wellington.....	1.70
Camden.....	1.50	Lagrange.....	1.60		
Carlisle.....	1.50	Penfield.....	1.70		

## LUCAS COUNTY

Adams.....	\$1.50	Providence.....	\$1.50	Toledo.....	\$1.50
Harding.....	1.50	Richfield.....	1.60	Washington.....	1.90
Jerusalem.....	2.00	Spencer.....	1.50	Waterville.....	1.50
Maumee.....	1.40	Springfield.....	1.40	Waynesfield.....	1.40
Monclova.....	1.40	Swanton.....	1.50		
Oregon.....	1.90	Sylvania.....	1.60		

## MADISON COUNTY

Canaan.....	\$1.20	Monroe.....	\$1.40	Range.....	\$2.00
Darby.....	1.20	Oak Run.....	1.70	Somerford.....	1.80
Deer Creek.....	1.50	Paint.....	2.00	Stokes.....	2.30
Fairfield.....	1.70	Pike.....	1.40	Union.....	1.80
Jefferson.....	1.50	Pleasant.....	1.90		

## MAHONING COUNTY

Township	Lime- stone	Blast fur- nace slag	Township	Lime- stone	Blast fur- nace slag
Austintown.....	\$2.10	\$1.30	Green.....	\$2.10	\$1.40
Beaver.....	2.10	1.30	Jackson.....	2.10	1.50
Berlin.....	2.10	1.50	Milton.....	2.10	1.50
Boardman.....	2.10	1.20	Poland.....	2.10	1.20
Canfield.....	2.10	1.30	Smith.....	2.10	1.50
Coitsville.....	2.10	1.10	Springfield.....	2.10	1.30
Ellsworth.....	2.10	1.40	Youngstown.....	2.10	1.20
Goshen.....	2.10	1.50			

## MARION COUNTY

Township	Limestone
All townships.....	\$1.40

## MEDINA COUNTY

All townships.....	\$1.80
--------------------	--------

## MEIGS COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Bedford.....	\$2.40	Letart.....	\$2.30	Salem.....	\$2.30
Chester.....	2.30	Olive.....	2.60	Salisbury.....	2.30
Columbia.....	2.30	Orange.....	2.50	Scipio.....	2.40
Lebanon.....	2.50	Rutland.....	2.30	Sutton.....	2.30

## MERCER COUNTY

Black Creek.....	\$1.30	Gibson.....	\$1.30	Marion.....	\$1.30
Butler.....	1.10	Granville.....	1.20	Recovery.....	1.20
Center.....	1.30	Hopewell.....	1.10	Union.....	1.30
Dublin.....	1.30	Jefferson.....	1.10	Washington.....	1.10
Franklin.....	1.20	Liberty.....	1.20		

## MIAMI COUNTY

Township	Limestone
All townships.....	\$1.80

## MONROE COUNTY

Township	Limestone	No. 2 Limestone	Blast furnace slag
All townships.....	\$2.60	\$2.00	\$1.80

## MONTGOMERY COUNTY

Township	Limestone
All townships.....	\$1.70

## MORGAN COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Bloom.....	\$2.30	Malta.....	\$2.30	Penn.....	\$2.30
Bristol.....	2.30	Manchester.....	2.30	Union.....	2.30
Center.....	2.40	Marion.....	2.40	Windsor.....	2.30
Deerfield.....	2.20	Meigsville.....	2.30	York.....	1.90
Homer.....	2.30	Morgan.....	2.30		

## MORROW COUNTY

Bennington.....	\$1.90	Gilead.....	\$1.60	South Bloomfield...	\$2.00
Canaan.....	1.50	Harmony.....	1.70	Troy.....	1.80
Cardington.....	1.60	Lincoln.....	1.70	Washington.....	1.60
Chester.....	1.80	North Bloomfield...	1.70	Westfield.....	1.60
Congress.....	1.80	Perry.....	2.00		
Franklin.....	1.90	Peru.....	1.70		



## MUSKINGUM COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Adams.....	\$2.10	Jackson.....	\$2.00	Rich Hill.....	\$2.00
Blue Rock.....	2.00	Jefferson.....	2.00	Salem.....	2.00
Brush Creek.....	1.80	Licking.....	2.00	Salt Creek.....	2.00
Cass.....	2.00	Madison.....	2.10	Springfield.....	1.60
Clay.....	1.60	Meigs.....	2.20	Union.....	2.00
Falls.....	1.90	Monroe.....	2.20	Washington.....	1.80
Harrison.....	2.00	Muskingum.....	1.90	Wayne.....	1.90
Highland.....	2.00	Newton.....	1.60		
Hopewell.....	1.80	Perry.....	1.90		

## NOBLE COUNTY

Beaver.....	\$2.30	Enoch.....	\$2.20	Olive.....	\$2.00
Brookfield.....	1.90	Jackson.....	2.00	Seneca.....	2.00
Buffalo.....	2.30	Jefferson.....	2.20	Sharon.....	1.90
Center.....	2.20	Marion.....	2.00	Stock.....	2.00
Elk.....	2.30	Noble.....	1.90	Wayne.....	2.40

## OTTAWA COUNTY

Allen.....	\$1.40	Catawba Island.....	\$1.50	Harris.....	\$1.40
Bay.....	1.50	Clay.....	1.40	Portage.....	1.50
Benton.....	1.40	Danbury.....	1.50	Put-in-Bay.....	1.50
Carroll.....	1.40	Erie.....	1.50	Salem.....	1.40

## PAULDING COUNTY

Auglaize.....	\$2.00	Carryall.....	\$1.80	Jackson.....	\$1.70
Benton.....	1.30	Crane.....	1.60	Latty.....	1.40
Blue Creek.....	1.20	Emerald.....	1.90	Paulding.....	1.40
Brown.....	1.90	Harrison.....	1.60	Washington.....	1.70

## PERRY COUNTY

Township	Limestone
All townships.....	\$1.90

## PICKAWAY COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Circleville.....	\$2.00	Madison.....	\$1.90	Salt Creek.....	\$2.30
Darby.....	1.70	Monroe.....	1.90	Scioto.....	1.70
Deer Creek.....	2.10	Muhlenburg.....	1.70	Walnut.....	2.00
Harrison.....	1.60	Perry.....	1.90	Washington.....	2.10
Jackson.....	2.00	Pickaway.....	2.20	Wayne.....	2.10

## PIKE COUNTY

Beaver.....	\$2.30	Mifflin.....	\$1.70	Scioto.....	\$2.30
Benton.....	2.20	Newton.....	2.30	Seal.....	2.30
Camp Creek.....	1.70	Pebble.....	2.30	Sunfish.....	2.40
Jackson.....	2.60	Peepee.....	2.30	Union.....	2.40
Marion.....	2.60	Perry.....	1.90		

## PORTAGE COUNTY

Township	Limestone	Blast furnace slag
All townships.....	\$2.20	\$1.50

## PREBLE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Dixon.....	\$1.90	Israel.....	\$2.10	Monroe.....	\$1.60
Gasper.....	1.80	Jackson.....	1.80	Somers.....	1.90
Gratis.....	1.90	Jefferson.....	1.80	Twin.....	1.60
Harrison.....	1.50	Lanier.....	1.80	Washington.....	1.70

## PUTNAM COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Blanchard	\$1.40	Monroe	\$1.40	Pleasant	\$1.40
Greensburg	1.30	Monterey	1.30	Riley	1.40
Jackson	1.30	Ottawa	1.40	Sugar Creek	1.20
Jennings	1.20	Palmer	1.40	Union	1.30
Liberty	1.50	Perry	1.30	Van Buren	1.50

## RICHLAND COUNTY

Blooming Grove	\$1.80	Madison	\$1.70	Sharon	\$1.60
Butler	1.90	Mifflin	1.90	Springfield	1.60
Cass	1.70	Monroe	2.10	Troy	2.00
Franklin	1.70	Perry	2.20	Washington	2.10
Jackson	1.70	Plymouth	1.70	Weller	2.00
Jefferson	2.20	Sandusky	1.60	Worthington	2.20

## ROSS COUNTY

Township	Limestone
All townships	\$1.90

## SANDUSKY COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Ballville	\$1.30	Rice	\$1.50	Townsend	\$1.30
Green Creek	1.30	Riley	1.40	Washington	1.30
Jackson	1.40	Sandusky	1.30	Woodville	1.30
Madison	1.20	Scott	1.30	York	1.20

## SCIOTO COUNTY

Township	Limestone	Blast furnace slag	Township	Limestone	Blast furnace slag
Bloom	\$1.70	\$1.20	Nile	\$2.30	\$1.50
Brush Creek	1.60	1.10	Porter	1.80	1.20
Clay	2.10	1.20	Rarden	1.60	1.10
Green	1.90	1.30	Rush	1.80	1.30
Harrison	2.00	1.20	Union	1.70	1.20
Jefferson	2.10	1.30	Valley	2.30	1.50
Madison	2.10	1.40	Vernon	1.70	1.20
Morgan	1.70	1.20	Washington	1.90	1.20

## SENECA COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Adams	\$1.40	Hopewell	\$1.40	Reed	\$1.50
Big Spring	1.50	Jackson	1.60	Scipio	1.30
Bloom	1.20	Liberty	1.40	Seneca	1.50
Clinton	1.50	Loudon	1.50	Thompson	1.20
Eden	1.60	Pleasant	1.50	Venice	1.30

## SHELBY COUNTY

Township	Limestone
All townships	\$1.80

## STARK COUNTY

Township	Limestone	Blast furnace slag
All townships	\$2.00	\$1.40

## SUMMIT COUNTY

All townships	\$1.80	\$1.30
---------------	--------	--------

## TRUMBULL COUNTY

All townships	\$2.00	\$1.30
---------------	--------	--------

## TUSCARAWAS COUNTY

Township	Limestone
All townships	\$2.20

## UNION COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Allen	\$1.40	Jerome	\$1.20	Taylor	\$1.50
Claibourne	1.60	Leesburg	1.30	Union	1.40
Darby	1.30	Liberty	1.70	Washington	1.80
Dover	1.30	Mill Creek	1.10	York	1.80
Jackson	1.80	Paris	1.20		

## VAN WERT COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Harrison	\$1.40	Liberty	\$1.20	Union	\$1.30
Hoaglin	1.50	Pleasant	1.50	Washington	1.50
Jackson	1.50	Ridge	1.50	Willshire	1.30
Jennings	1.10	Tully	1.30	York	1.20

## VINTON COUNTY

Township	Limestone
All townships	\$2.10

## WARREN COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Clear Creek	\$1.80	Harlan	\$1.80	Union	\$1.70
Deerfield	1.70	Massie	1.50	Washington	1.60
Franklin	1.90	Salem	1.70	Wayne	1.60
Hamilton	1.80	Turtle Creek	1.90		

## WASHINGTON COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Adams	\$2.30	Grandview	\$2.50	Palmer	\$2.40
Aurelius	2.20	Independence	2.50	Salem	2.30
Barlow	2.50	Lawrence	2.50	Warren	2.40
Belpre	2.30	Liberty	2.50	Waterford	2.30
Decatur	2.30	Ludlow	2.50	Watertown	2.40
Dunham	2.40	Marietta	2.30	Wesley	2.40
Fairfield	2.50	Muskingum	2.30		
Fearing	2.30	Newport	2.50		

## WAYNE COUNTY

Township	Limestone	Blast furnace slag	Township	Limestone	Blast furnace slag
Baughman	\$2.20	\$1.50	Green	\$1.90	\$1.30
Canaan	1.90	1.30	Milton	2.10	1.50
Chester	2.10	1.50	Paint	2.10	1.50
Chippewa	2.10	1.50	Plain	2.20	1.50
Clinton	2.20	1.50	Salt Creek	2.30	1.60
Congress	2.00	1.40	Sugar Creek	2.00	1.40
East Union	2.00	1.40	Wayne	1.90	1.30
Franklin	2.20	1.50	Wooster	2.10	1.50

## WILLIAMS COUNTY

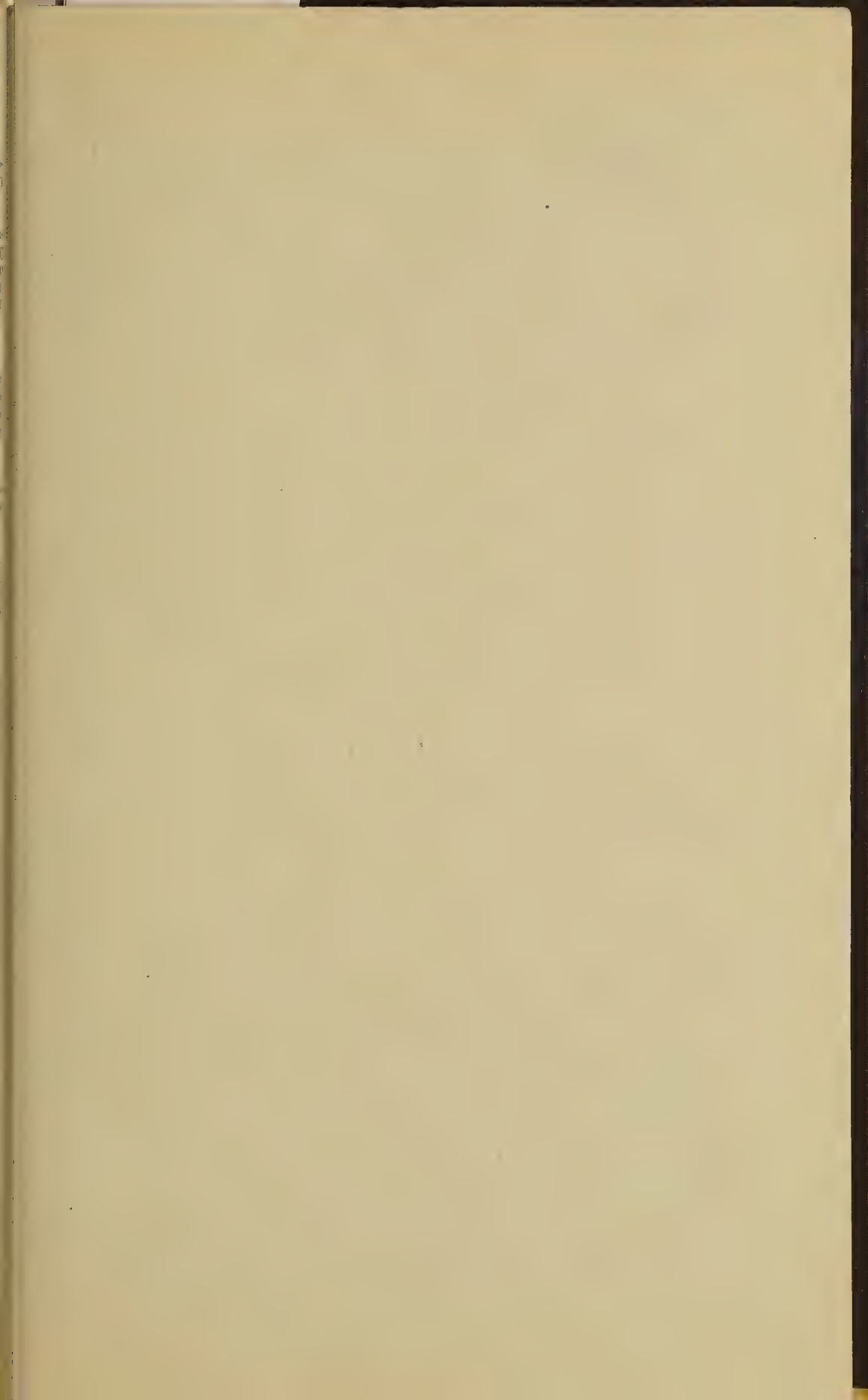
Township	Limestone
All townships	\$2.40

## WOOD COUNTY

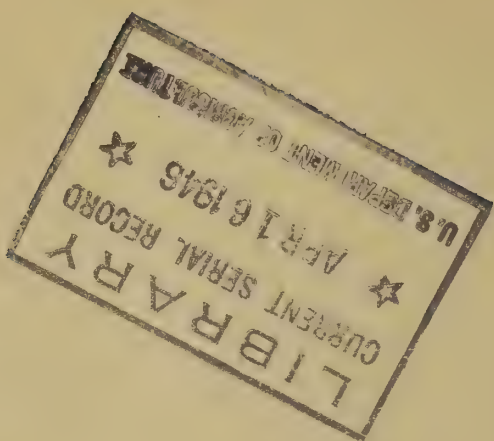
Township	Limestone
All townships	\$1.20

## WYANDOT COUNTY

Township	Limestone
All townships	\$1.40







62  
UNITED STATES DEPARTMENT OF AGRICULTURE

PRODUCTION AND MARKETING ADMINISTRATION

FIELD SERVICE BRANCH

Washington, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

**SOUTH DAKOTA COMMITTEEMAN'S PRACTICE  
HANDBOOK**

The 1946 Farm Program is designed to assist the farmers of South Dakota to the fullest possible extent in protecting their soils against damage from erosion and loss of fertility.

The county committee will designate those practices which will be approved for payment in the county in order that the available funds will be used most effectively to bring about increased conservation. Written approval by the county committee must be obtained for each practice to be performed on any individual's farm, prior to the carrying out of such practice except that practices performed before April 1, 1946, may be approved retroactively by the county committee.

**A. FUNDS AVAILABLE FOR CONSERVATION PRACTICES ON  
INDIVIDUAL FARMS**

The county and community committeemen will determine for each farm, on the basis of the conservation needs and farmer's intentions, maximum payments for each practice approved for the farm. The sum of the maximum payments approved cannot exceed the county limits approved for this purpose by the State committee. Official notice of such approval will be forwarded to the operator and other parties interested in the operation of the farm.

**B. CONSERVATION PRACTICES**

The practices available for 1946 are those which are most needed in order to conserve and improve soil fertility, improve pasture land, prevent wind and water erosion, and promote conservation and better utilization of water. Assistance will be available for carrying out the following practices during the program year January 1, 1946, through December 31, 1946. To qualify for payment, each practice must be carried out in accordance with the specifications for that practice and be in keeping with good farming practices for the locality.

Except as stated below, the total extent of any practice performed shall be reduced for purposes of payment by the percentage of the total cost of the practice which the county committee determines was furnished by a State or Federal agency. The extent of any practice shall not be reduced because a portion of the cost is represented by materials or services furnished by the F. S. B., or equipment furnished by S. C. S., or materials or services furnished by an agency of a State or political subdivision thereof to another agency or political subdivision of the same State, or trees purchased from a Clark-McNary Cooperative State Nursery.

No payment will be made for the following practices on farms or ranching units having more than 640 acres of noncrop open pasture unless an approved grazing management plan, Form NCR-3A, has been filed with the county committee and unless such plan has been carried out on the unit: Dams and Ponds for Livestock Water, Deferred Grazing, Development of Springs and Seeps, Wells, Fireguards, Reseeding Noncrop Open Pasture, Complete Pasture Establishment, or Stockwater Pipelines.

(1) **Standard terraces.**—Construction of standard terraces for which proper outlets must be provided. The terraces and outlets must be constructed in accordance with the minimum specifications required by the State committee.

(a) For base width of less than 26 feet and with a minimum ridge cross-section of 10 square feet above the original ground level.—**\$1.50 per 100 linear feet.**

(b) For base widths of 26 feet or more and with a minimum ridge cross-section of at least 12 square feet above the original ground level.—**\$2.00 per 100 linear feet.**

(2) **Contouring intertilled crops.**—Contour farming of intertilled crops, provided the crop stubble is left standing or a good stand of a winter cover crop is obtained. Planting and cultivation must be performed parallel to the base contour lines. The base lines must be established by the use of an approved instrument and there must be sufficient lines to avoid erosion in the rows because of deviation from the true contour. The base lines must be permanently marked. Waterways must be sodded to prevent erosion.—**\$1.50 per acre.**

(3) **Contour seeding.**—Contour seeding, by drilling, of small grain, sorghums, millet or soybeans. All tillage operations, including plowing, must be performed parallel to the base contour lines. The base lines must be established by the use of an approved instrument and there must be sufficient lines to avoid erosion in the rows because of deviation from the true contour. The base lines must be permanently marked. Waterways must be sodded to prevent erosion.—**\$0.50 per acre.**

(4) **Contour stripcropping with intertilled crops or fallow.**—Growing alternate strips of intertilled crops or fallow with sown, close-drilled, or sod crops, on the contour, provided (1) the strips are approximately the same width; (2) the strips are not less than 3 rods nor more than 20 rods in width; (3) the crop stubble is left standing, or a subsurface tillage operation is performed, or a good stand of a winter cover crop is obtained; and (4) buffer strips are at least 1 rod in width. Seeding and cultivation must be performed parallel to the base contour lines. The base lines must be established by the use of an approved instrument and there must be sufficient lines to avoid erosion in the rows because of deviation from the true contour. The base lines must be permanently marked. Waterways must be sodded to prevent erosion. When it is necessary, because of rotations, to have two adjacent strips of sown, close-drilled, or sod crops, credit may be given for the entire field. Credit may be given under practices (2) or (3) for the acreage of intertilled crops or small grain crops which are included in the stripcropping system.

(a) Less than 25 percent of the field in perennial grass or perennial legumes.—**\$1.00 per acre.**

(b) Twenty-five percent or more of the field in perennial grass or perennial legumes.—**\$2.50 per acre.**



(5) **Contour stripcropping with small grain crops.**—Growing alternate strips of small grain crops with perennial grasses or biennial or perennial legumes, on the contour, provided (1) the strips are approximately the same width; (2) the strips are not less than 3 rods nor more than 20 rods in width; (3) the crop stubble is left standing or a subsurface tillage operation is performed, or a good stand of a winter cover crop is obtained; and (4) the buffer strips are at least 1 rod in width. Seeding and cultivation must be performed parallel to the base contour lines. The base lines must be established by the use of an approved instrument and there must be sufficient lines to avoid erosion in the rows because of deviation from the true contour. The base lines must be permanently marked. Waterways must be sodded to prevent erosion. When it is necessary, because of rotations, to have two adjacent strips of sown, close-drilled, or sod crops, credit may be given for the entire field. Credit may be given under practice (3) for the acreage of small grain which is included in the stripcropping system.

(a) Less than 25 percent of the field in perennial grasses, biennial or perennial legumes.—**\$1.00 per acre.**

(b) Twenty-five percent or more of the field in perennial grasses, biennial or perennial legumes.—**\$1.50 per acre.**

(6) **Field stripcropping not on the contour.**—Growing alternate strips of intertilled crops or fallow with sown, close-drilled, or sod crops, provided (1) the strips are approximately the same width; (2) the strips are not less than 3 rods nor more than 20 rods in width; (3) the crop stubble is left standing, or a subsurface tillage operation is performed, or a good stand of a winter cover crop is obtained; and (4) the strips are across the general slope of the land or parallel to the prevailing winds.

(a) Where fallow strips are not used.—**\$0.50 per acre.**

(b) Where fallow strips are used.—**\$0.75 per acre.**

(7) **Contour pasture furrowing.**—Construction of contour furrows on noncrop open pasture land. The average slope of the area to be furrowed must be less than 8 percent. The furrows must be dammed sufficiently to prevent gullyng and should not be more than 25 feet apart.—**\$0.25 per 1,000 linear feet.**

(8) **Protecting summer fallow.**—Protecting summer fallowed acreage from wind and water erosion by contour listing, pit cultivation, contour cultivation with a shovel type implement, cultivation with a rod weeder, or any other implement approved by the county committee, and incorporating stubble and straw into the surface soil. The first tillage operation must be begun not later than the date set by the State committee and must be followed at such intervals and with such implements, as will control weed growth, create a firm seed bed, and maintain a cloddy, trashy, or pitted surface. No credit may be given for this practice for any acreage which has been burned, or for any acreage for which credit will be given under the Stripcropping Practices (4) or (6).—**\$1.00 per acre.**

(9) **Contour listing cropland.**—Solid contour listing on cropland, except when carried out under Practice (8), Protecting Summer Fallow, or as part of a seeding operation.—**\$0.30 per acre.**

(10) **Emergency cultivation.**—Cultivation of unprotected cropland at right angles to the prevailing winds. Any implement may be



used if the land is ridged sufficiently to prevent erosion. No credit for this practice may be given if credit is to be given for the acreage under Practice (8), Protecting Summer Fallow, or if the operation is performed in connection with a seeding operation.—**\$0.30 per acre.**

(11) **Establishing sod waterways.**—Establishing a permanent sod waterway on any cropland where a vegetative cover is necessary in a waterway channel or terrace outlet, or in cultivated orchards. The channel must be sufficiently wide to carry the run-off from the drainage area and must be at least 1 rod wide at the narrowest point. Adapted sod forming perennial grasses must be seeded, and if a nurse crop is used, the nurse crop must not be removed from the land by any method. A good vegetative growth must be obtained before the end of the program year. No credit may be given unless it is necessary to level the area to be seeded.—**\$0.75 per 1,000 square feet.**

(12) **Establishing permanent cover.**—Establishing a permanent cover of adapted perennial grasses and legumes on slopes of 8 percent or more, or in waterways where a permanent vegetative cover is necessary to prevent erosion and leveling is not required. No credit may be given under this practice for any acreage for which credit is given under Practice (11), Establishing Sod Waterways.

(a) Wheat grasses.—**\$0.10 per pound.**

(b) Adapted perennial grasses (excluding wheat grasses) seeded with legumes.—**\$0.15 per pound.**

(13) **Construction of open farm drainage ditches.**—Construction or enlargement of open farm drainage ditches (excluding those ditches constructed or maintained by a drainage district), including lateral and lead ditches for which proper outlets have been provided. Provision must be made for the free movement of water and the ditches must have sufficient capacity to remove the normal excess surface water. The gradient of the ditch must be such as to avoid both silting and gullyng. No credit will be given for material moved in cleaning the ditch.—**\$0.08 per cubic yard, but not in excess of \$8.00 per 100 linear feet.**

(14) **Excavation of ditches for tile drainage.**—Excavation of ditches for the purpose of installation of tile drains, provided (1) the size of tile, outlets, and gradients meet the minimum specifications for standard drainage as recommended by the United States Department of Agriculture; (2) not less than 75 percent of the area to be drained is cropland; and (3) no part of the tile lines is to be used for any purpose other than the draining of agricultural land. Payment is limited to tile ditches constructed for the drainage of swales, wet spots, and irregular wet margins of cultivated fields.—**\$0.40 per rod.**

(15) **Irrigation ditches.**—Construction or enlargement of permanent ditches, laterals, or dikes for irrigation, in accordance with a written plan.—**\$0.08 per cubic yard of material moved, but not in excess of \$8.00 per 100 linear feet of ditch constructed.**

(16) **Leveling land for irrigation.**—Leveling cropland for irrigation in accordance with a written plan.—**\$0.08 per cubic yard, but not in excess of \$8.00 per acre.**

(17) **Spreader ditches.**—Construction of ditches or dikes for the diversion and spreading of flood water on cropland, pasture land, or hay land. Gradients must be designed to prevent erosion hazards.—**\$0.08 per cubic yard, but not in excess of \$8.00 per 100 linear feet.**

(18) **Rip-rap.**—Construction of rip-rap of rock, timber cribs, willow mats, log booms, or a combination of any of these materials, or any other material approved by the State committee, along watercourses for the control of erosion and the protection of farmland. Rip-rap constructed as headwalls at gully terminals, as check dams, or on the face of dams will qualify for credit.—**\$0.50 per square yard of exposed surface.**

(19) **Covering blow-outs.**—Covering blow-outs on cropland with straw or hay to prevent wind erosion and to encourage revegetation. The area covered must not be cultivated. This practice may be used only in sandy areas of counties approved by the State committee.—**\$1.00 per ton of material used.**

(20) **Tillage for water conservation and control of annual weeds.**—Cultivation of cropland beginning as soon as possible after the harvest of a small grain crop. The implements to be used shall be such as will leave the crop residue on the surface of the ground. Tillage operations should be on the contour where necessary to control erosion and should be performed often enough to control annual weeds. No credit will be given for this practice if the land is devoted to a 1946 fall seeded crop.—**\$0.35 per acre.**

(21) **Dams and ponds for livestock water.**—Construction of earthen, concrete, or masonry dams, reservoirs, or ponds, including the enlargement of inadequate earthen structures. All developments must be staked out before construction is started. Earthen dams must be constructed with minimum upstream slopes of 3 to 1, and minimum downstream slopes of 2 to 1; there must be at least 1 foot of crown width for each foot in height of fill up to 10 feet in height. Dams 10 feet or less in height must have a minimum freeboard of 3 feet, and dams over 10 feet in height must have a minimum freeboard of 4 feet. Naturally sodded spillways should be utilized wherever possible and the spillways in all cases must be sufficiently wide to carry the expected overflow from the drainage area. Trickle tubes should be installed whenever there appears to be a probability of erosion in the spillways. Both the dam and the spillway should be seeded to sod-forming grasses and should be fenced to prevent damage by livestock.

(a) For earth or other material moved.—**\$0.10 per cubic yard.**

(b) For concrete or masonry.—**\$9.00 per cubic yard.**

(c) For rubble masonry.—**\$6.00 per cubic yard.**

(d) For commercially treated lumber.—**\$0.05 per board foot.**

(e) For 24-inch metal culvert or diameter equivalent.—**\$2.00 per linear foot.**

(f) For 24-inch concrete or glazed clay tile, or its diameter equivalent.—**\$1.50 per linear foot.**

(22) **Dams for erosion control.**—Construction of dams for the prevention of water erosion and flood damage to farmland. All projects must be constructed in accordance with the minimum specifications required by the State Committee.

(a) For earth or other material moved.—**\$0.08 per cubic yard.**

(b) For concrete or masonry.—**\$9.00 per cubic yard.**

(c) For rubble masonry.—**\$6.00 per cubic yard.**

(23) **Wells.**—(Applicable only on farms having 640 acres or more of noncrop open pasture.) Drilling or digging wells or deepening by drilling or digging, wells which have failed to furnish sufficient water for livestock, provided (1) a windmill or power plant is in-



stalled, except where an adequate flow is obtained without mechanical means; (2) the water is conveyed to a tank or storage reservoir; (3) the well is not developed at or for the use of ranch or farm headquarters; and (4) the development will contribute to a better distribution of grazing. A well driller's statement showing the depth of the well and the dimensions of the casing must be provided by the producer.

(a) Artesian wells, and wells with casings less than 4 inches in diameter.—**\$1.00 per linear foot.**

(b) Wells with casings of 4 inches or more in diameter.—**\$2.00 per linear foot.**

(c) Wells 400 feet or more in depth and with casings 6 inches or more in diameter.—**\$3.00 per linear foot.**

(24) **Springs and seeps.**—Development of springs and seeps by excavation at the source and making a supply of water available to livestock, provided (1) the source is protected from trampling; (2) water storage to the extent of 20 cubic feet is provided; and (3) the development contributed to a better distribution of grazing. No credit will be given under this practice for any storage for which payment was made under Practice (21), Dams and Ponds for Livestock Water, and Practice (22), Dams for Erosion Control.

(a) For earth or gravel moved.—**\$0.30 per cubic foot.**

(b) For rock moved.—**\$0.50 per cubic foot.**

(25) **Deferred grazing.**—(Applicable only on farms having 640 acres or more of noncrop open pasture.) Natural reseeding of noncrop open pasture normally grazed during the grazing season by withholding from grazing during the period from May 15, 1946, to August 31, 1946. The area to be kept free from grazing must be fenced, and the fence must be maintained sufficiently to prevent entry of livestock, except in areas normally grazed exclusively by sheep or goats, a fence will not be required if the livestock are kept out by herding. The remainder of the grazing land in the unit which is not being deferred must not be pastured to such an extent as to decrease the stand of grass or injure the forage, trees or watershed. This practice must not be approved on grassland included in the same boundary with cropland, nor shall any area not having an available supply of stockwater be considered as normal grazing land. This practice must not be approved on an area deferred in 1944 or 1945 unless material benefit is likely to result through deferment in 1946.

No producer shall be eligible for the practice unless he has sufficient livestock to be considered a bona fide livestock operator. If any hay is cut within the boundaries of a deferred area, the acreage on which such hay is cut will be deducted from the deferred area. The area to be deferred must be designated in writing by the producer before approval will be given.—**\$0.10 per acre, not to exceed 25 percent of the noncrop open pasture in the ranching unit.**

(26) **Reseeding noncrop open pasture.**—Seeding of depleted pasture on land designated as noncrop open pasture land. All seedings must be made with a drill and the area seeded must not be grazed until a good stand has been established. Straight seedings of biennials or annuals, or mixtures of annuals and biennials will not qualify for credit, except that annuals and biennials will receive credit when used in a mixture containing at least 75 percent perennials. The following seeds will qualify when used in accordance with the provisions of the practice: crested wheat grass, slender wheat grass, western wheat

grass, timothy, redtop, sweet clover, white clover, red clover, gramma grass, buffalo grass, bluestem, featherbunch grass, alfalfa, and brome grass.—**\$0.15 per pound of seed used.**

(27) **Complete pasture establishment.**—Establishment of permanent pasture on land to be used solely for the pasturing of livestock. All seedings must contain at least 20 percent of perennial grasses and at least 50 percent of perennial legumes except that wheat grasses may be seeded alone. The seedbed must be prepared in a workmanlike manner, and rolled or packed after the seeding when such operations are necessary. All seedings must be made with a drill. If a nurse crop is used, it must be clipped green and left on the land. The area seeded must not be grazed until a good stand is established.

(a) Seeding wheat grass at the rate of at least 10 pounds per acre.—**\$1.00 per acre.**

(b) Seeding a mixture containing at least 20 percent of adapted perennial grasses (excluding wheat grasses) and at least 50 percent perennial legumes, at the rate of at least 12 pounds per acre.—**\$2.00 per acre.**

(28) **Fireguards on rangeland.**—Establishment of fireguards at least 10 feet in width on noncrop open pasture by plowing furrows or otherwise exposing the mineral soil. Plowing not less than two furrows on each side of a strip at least 20 feet wide from which all inflammable vegetation has been removed will also qualify. Payment will not be made if any fireguard is used in connection with controlled burning.—**\$1.20 per 1000 linear feet.**

(29) **Stockwater pipelines.**—Installation of black or galvanized steel pipelines to convey water from livestock dams or wells to adjacent pastures for the use of livestock. The project must contribute to a better distribution of grazing. Pipe size shall be determined by measurement of the inside diameter. No credit will be given for this practice in connection with Practice (23), Wells.

(a) 1-inch to 1½-inch pipe.—**\$0.10 per linear foot.**

(b) 1½-inch and over.—**\$0.20 per linear foot.**

(30) **Tree planting.**—Planting trees on farm land in a manner consistent with good tree culture practices. Young plantings must be protected by fences or herding. The county committee must give approval of the site and species of trees or shrubs to be planted taking into consideration the adaptability of the species to the particular soil type, climatic conditions, moisture conditions, and site. The species which may be approved are listed below:

(a) For forest purposes: Ponderosa pine, western red cedar, eastern red cedar, green ash, black walnut, cottonwood, burr oak, hackberry, American elm, red elm, honey locust, bass wood, Kentucky coffee tree, and box elder.—**\$1.00 per 100 trees, but not in excess of \$7.50 per acre.**

(b) For gully control: Credit for planting in gullies will not be given where the gully could be controlled by filling and the use of sod forming grasses. The following species of trees and shrubs may be approved provided at least 70 percent of the planting is made up of the shrubs. Shrubs: wild plum, western chokecherry, smooth sumac, three-leaf sumac, indigo bush, dogwood, silverberry, golden currant, snowberry, matrimony vine, wild grape, dahurian buckthorn, buffalo berry, Chinese lilac, caragana, tatarian honeysuckle, Manchu apricot, nannyberry, Nanking cherry, and June berry. Trees: hackberry, Russian olive, white willow, blackwillow, hawthorn, Siberian crab, American elm, and burr oak.—**\$1.00 per 100 plants, but not in excess of \$7.50 per acre.**

(c) For windbreaks or shelterbelts: Credit will be given only where the plantings are made on land which was tilled in 1945. Plantings must be made in rows not more than 12 feet apart. Plantings of seven rows or less



must have at least one row of shrubs on the windward side and plantings of more than seven rows must have at least one row of shrubs on each side. No credit will be given for the shrubs. Eligible species are shown in the following table.—\$2.00 per 100 trees.

	S. E. area	N. E. area	S. W. area	N. W. area
Eastern red cedar.....	x	x	x	x
Rocky Mountain red cedar.....	x	x	x	x
Colorado Blue spruce.....	x	x	x	x
White spruce (Black Hills strain).....	x	x	x	
Western yellow pine.....	x	x	x	x
Douglas fir.....	x	x	x	
Russian olive.....	x	x	x	
Diamond willow.....	x	x	x	x
Box elder.....	x	x	x	x
Siberian crab apple.....	x	x	x	x
Green ash.....	x	x	x	x
Black walnut.....	x	x	x	
Burr oak.....	x	x	x	x
Bass wood.....	x	x		
American elm.....	x	x	x	x
Red elm.....	x	x		
Cottonwood.....	x	x	x	x
White willow.....	x	x	x	x
Black willow.....	x	x	x	x
Chinese elm.....	x	x	x	x
Hackberry.....	x	x	x	x
Honey locust.....	x		x	
Kentucky coffee tree.....	x	x		
Chokecherry.....	x	x	x	x

The southeastern area includes Minnehaha, McCook, Hansen, Davison, Aurora, and Brule Counties and all counties south of the above-mentioned counties and east of the Missouri River.

The northeastern area includes all counties to the north of the southeastern area and east of the Missouri River.

The southwestern area includes Gregory, Tripp, Mellette, Jackson, Pennington, and that part of Meade County lying south of the Belle Fourche River and all counties south of the above-mentioned counties and west of the Missouri River.

The northwestern area includes all counties to the north of the southwestern area and to the west of the Missouri River.

(31) **Maintaining a stand of trees in windbreaks or shelterbelts.**—Maintaining a stand of at least 200 trees, exclusive of shrubs, in a windbreak or shelterbelt planted between January 1, 1941, and January 1, 1946. The trees must be maintained in a thrifty and growing condition. At least 3 thorough cultivations must be completed prior to August 1, 1946, including clean cultivation of a strip approximately 10 feet wide along both sides of the tree belt. Livestock must be excluded from the planting by fencing or herding, and the stand protected from fire. Replantings must be made if necessary.—\$3.00 per acre.

(32) **Eradication of weeds on cropland.**—Eradication of seriously infested plots of the following weeds: creeping jenny, leafy spurge, Canada thistle, perennial sow thistle, perennial pepper grass, and Russian knapweed. Approval may be given for this practice only on farms where approved weed-control measures are being carried out on all adjacent infested farms and contiguous land, where the infestation is limited to a single farm, or where the county committee deter-

mines there is no likelihood of reinfestation from adjacent or contiguous land. No crop may be taken from the land but the weeds may be cut and removed before tillage is begun.

(a) For sodium chlorate or other chemicals approved by the State Committee (excluding borax).—\$0.05 per pound.

(b) For borax.—\$0.02 per pound.

(c) For continuous clean tillage.—\$10.00 per acre.

(33) **Fertilizers.**—Application of superphosphate, or potash to (1) **pastures**; (2) **new seedings** of biennial or perennial legumes, or perennial grasses, seeded alone; or (3) **new seedings** of biennial and perennial legumes or perennial grasses after the nurse crop has been removed.

(a) 100 pounds of available  $P_2O_5$ .—\$5.75.

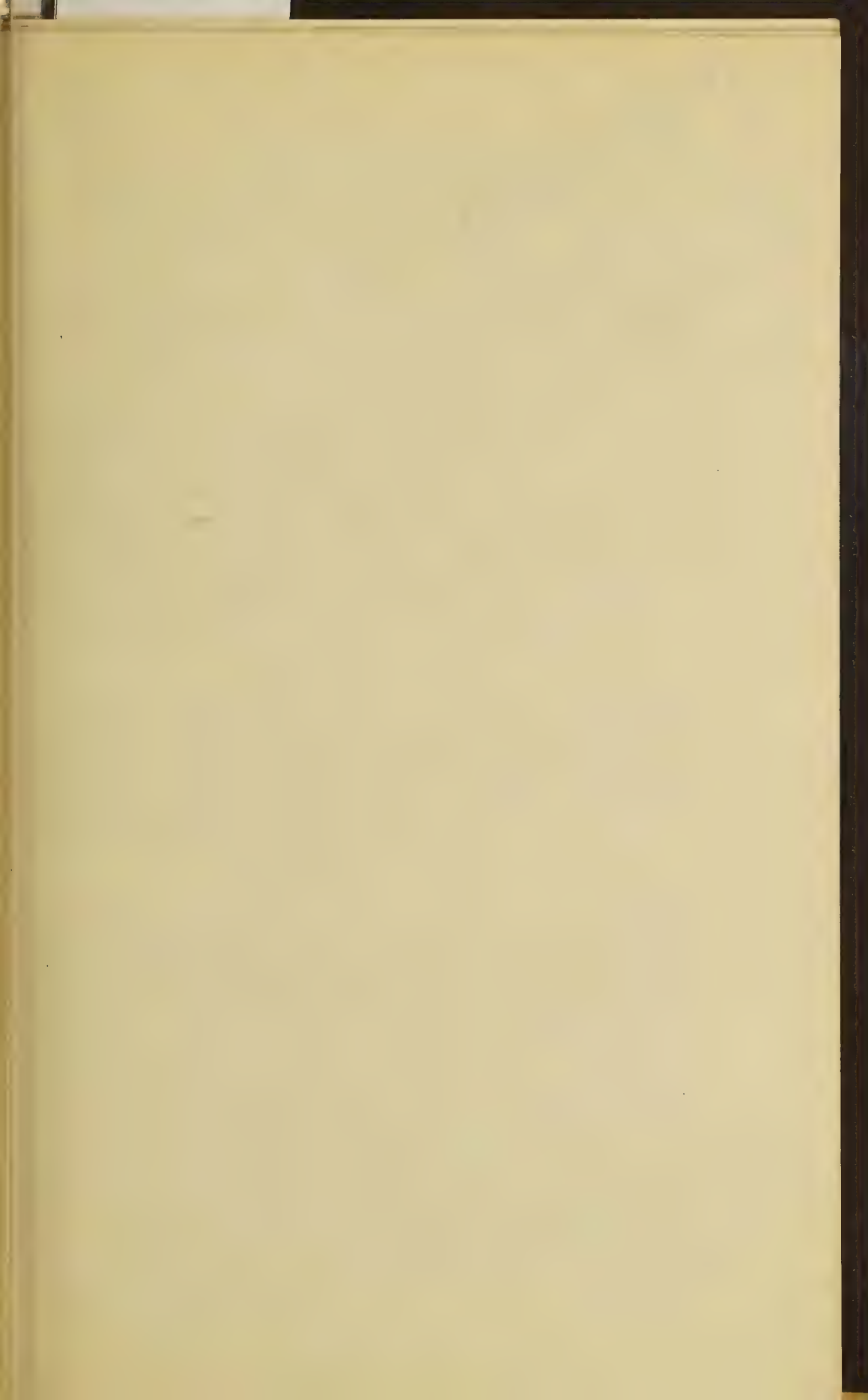
(b) 100 pounds of available  $K_2O$ .—\$3.50.

(34) **Green manure crops.**—Plowing under or subsurface tilling a good stand and a good growth of sweetclover or 1945 fall seedings of winter rye. If the land is subject to erosion and the green manure is turned under in the fall, the land must be protected by a winter cover crop. Fall plowing will not qualify unless approval is given by the State committee.—\$1.50 per acre.

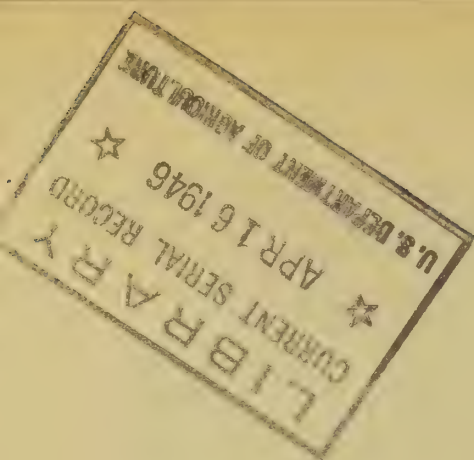
### C. POOLING AGREEMENTS

Producers in any local area may agree in writing, with the approval of the county and State committees, to cooperatively perform the following practices on one or more of the farms operated by such producers, provided all of their farms are benefited by the performance of such practices: Practice (13), Construction of Open Farm Drainage Ditches, or Practice (17), Spreader Ditches. Instructions for carrying out pooling agreements are contained in NCR-46-2.









3  
UNITED STATES DEPARTMENT OF AGRICULTURE

PRODUCTION AND MARKETING ADMINISTRATION

FIELD SERVICE BRANCH

Washington, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

**WISCONSIN COMMITTEEMAN'S PRACTICE HANDBOOK**

The 1946 Farm Program is designed to assist the farmers of Wisconsin to the fullest possible extent in protecting their soils against damage from erosion and loss of fertility.

The county committee will designate those practices which will be approved for payment in the county in order that the available funds will be used most effectively to bring about increased conservation. Written approval by the county committee must be obtained for each practice to be performed on any individual's farm, prior to the carrying out of such practice except that practices performed before April 1, 1946, may be approved retroactively by the county committee.

**A. FUNDS AVAILABLE FOR CONSERVATION PRACTICES ON INDIVIDUAL FARMS**

The county and community committeemen will determine for each farm, on the basis of the conservation needs and farmer's intentions, maximum payments for each practice approved for the farm. The sum of the maximum payments approved cannot exceed the county limits approved for this purpose by the State Committee. Official notice of such approval will be forwarded to the operator and other parties interested in the operation of the farm.

**B. CONSERVATION PRACTICES**

The practices available for 1946 are those which are most needed in order to conserve and improve soil fertility, improve pasture land, prevent wind and water erosion, and promote conservation and better utilization of water. Assistance will be available for carrying out the following practices during the program year January 1, 1946, through December 31, 1946. To qualify for payment, each practice must be carried out in accordance with the specifications for that practice and be in keeping with good farming practices for the locality.

Except as stated below the total extent of any practice performed shall be reduced for purposes of payment by the percentage of the total cost of the practice which the county committee determines was furnished by a State or Federal agency. The extent of any practice shall not be reduced because a portion of the cost is represented by materials or services furnished by the F. S. B., or equipment furnished by S. C. S., or materials or services furnished by an agency of a State or political subdivision thereof to another agency or political subdivision of the same State, or trees purchased from a Clark-McNary Cooperative State Nursery.

(1) **Liming Materials.**—(Credit rates are contained in NCR-46-1, Supplement 1). Application of the following materials:

(a) One ton of agricultural ground limestone which meets the following requirements: (1) the material must contain 80 percent calcium carbonate equivalent, and (2) must be ground sufficiently fine so that 80 percent, including all the finer particles obtained in the grinding process, will pass through a U. S. Standard No. 8 sieve and 20 percent through a U. S. Standard No. 100-mesh sieve, and (3) must not contain more than 8 percent moisture at the time of shipment. The calcium carbonate equivalent and the percent passing through a U. S. Standard No. 8 sieve must be at least 80 and one or both must be greater than 80 so that the multiplication of the percent of calcium carbonate equivalent by the percent of material passing through a U. S. Standard No. 8 sieve will be equal to or in excess of 0.72.

(b) One ton of calcium carbide refuse lime containing at least 85 percent calcium carbonate equivalent and testing not more than 35 percent moisture at the shipping point.

(c) One cubic yard of marl containing not less than 70 percent calcium carbonate equivalent.

(d) One cubic yard of paper mill refuse lime containing not less than 70 percent calcium carbonate equivalent.

(e) One cubic yard of calcareous clay containing not less than 30 percent calcium carbonate equivalent.

(f) One cubic yard of commercial hard wood ashes containing not less than 50 percent calcium carbonate equivalent.

(g) One ton of byproduct of lead mines containing not less than 80 percent calcium carbonate equivalent and ground sufficiently fine so that 80 percent of the material will pass through a U. S. Standard No. 8 sieve. The calcium carbonate equivalent and the percent passing through a U. S. Standard No. 8 sieve must be at least 80 and one or both must be greater than 80 so that the multiplication of the percent of calcium carbonate equivalent by the percent of material passing through a U. S. Standard No. 8 sieve will be equal to or in excess of 0.72.

(h) One ton of eggshells containing not less than 80 percent calcium carbonate equivalent.

(i) One ton of burnt lime waste containing at least 90 percent calcium carbonate equivalent and testing not more than 20 percent moisture at the loading point.

(f) One ton of hydrated lime.

A correspondingly greater amount of material must be required if the material does not meet the specifications.

(2) **Fertilizers.**—Application of superphosphate, defluorinated phosphate rock, or potash to: (1) **pastures**; (2) **new seedings** of biennial or perennial legumes, or perennial grasses, with or without a nurse crop; (3) **old stands** of biennial and perennial legumes or perennial grasses, provided the acreage on which such applications are made is not cultivated for, devoted to, or plowed for any other crop prior to January 1, 1947; and (4) to **green manure crops** in orchards.

(a) Superphosphate or defluorinated phosphate rock.—\$4.00 per 100 pounds of available  $P_2O_5$ .

(b) Potash.—\$2.50 per 100 pounds of available  $K_2O$ .

(c) 100 lbs. of 0-9-27..... \$1.00

(d) 100 lbs. of 0-10-20..... .90

(e) 100 lbs. of 0-12-12..... .80

(f) 100 lbs. of 0-14-7..... .70

(g) 100 lbs. of 0-14-14..... .90

(h) 100 lbs. of 0-18-0..... .70

(i) 100 lbs. of 0-19-0..... .80

(j) 100 lbs. of 0-20-0..... \$0.80

(k) 100 lbs. of 0-20-10..... 1.00

(l) 100 lbs. of 0-20-10..... 1.30

(m) 100 lbs. of 2-12-6..... .60

(n) 100 lbs. of 3-9-18..... .80

(o) 100 lbs. of 3-12-12..... .80

(p) 100 lbs. of 3-18-9..... .90

(q) 10 lbs. of 4-10-6..... .50

(r) 100 lbs. of 4-16-0..... .60

(s) 100 lbs. of 8-8-8..... .50

(t) 100 lbs. of 10-6-4..... .30

(3) **Terraces.**—Construction of terraces on slopes of not more than 12 percent. The terrace must have a minimum settled cross-section of



at least 10 square feet and a grade of less than 6 inches per 100 linear feet. The terrace must be of sufficient width to permit the use of all common farm implements and should have horizontal spacings of 120 feet on 2 percent slopes decreasing proportionately to 60 feet on 12 percent slopes.—**\$1.50 per 100 linear feet.**

(4) **Contouring Intertilled Crops.**—Contour farming of intertilled crops, provided the crop stubble is left standing, or a good stand of a winter cover crop is obtained, or the land is fall-plowed on the contour. If there is danger of erosion in waterways, such waterways must be permanently established in sod. Contour lines must be run with an approved instrument.—**\$0.50 per acre.**

(5) **Contouring Close-Sown Crops.**—Contour farming of small grain crops, sorghums, millet and soybeans. All tillage operations, including plowing, must be on the contour. The seeding must be made with a drill. If there is danger of erosion in waterways, such waterways must be permanently established in sod. Contour lines must be run with an approved instrument.—**\$0.50 per acre.**

(6) **Contour Stripcropping With Intertilled Crops.**—Growing alternate strips of intertilled crops with perennial grass or biennial or perennial legumes, on the contour, provided: (1) the strips are approximately the same width; (2) the strips are not more than 4 rods in width on slopes over 12 percent, increasing proportionately to 8 rods on 2 percent slopes; and (3) the grass or hay strips are retained over winter. When it is necessary, because of rotations, to have two adjacent strips of grass or hay crops, credit may be given for the entire acreage in the field. Contour lines must be run with an approved instrument. Credit for the acreage of intertilled crops included in the stripcropping system may be given under Practice (4).

(a) At least 50 percent of the field in biennial legumes.—**\$1.00 per acre.**

(b) At least 33 percent of the field in perennial grass or perennial legumes.—**\$1.50 per acre.**

(c) At least 50 percent of the field in perennial grasses or perennial legumes.—**\$2.50 per acre.**

(7) **Contour Stripcropping with Small Grain Crops.**—Growing alternate strips of small grain crops with perennial grass or biennial or perennial legumes, on the contour, provided: (1) the strips are approximately the same width; (2) the strips are not more than 4 rods in width on slopes over 12 percent, increasing proportionately to 8 rods on 2 percent slopes; and (3) the grass or hay strips are retained over winter. Contour lines must be run with an approved instrument. Credit for the acreage of small grain crops included in the stripcropping system may be given under Practice (5).

(a) At least 50 percent of the field in biennial legumes.—**\$1.00 per acre.**

(b) At least 50 percent of the field in perennial grasses or perennial legumes.—**\$1.50 per acre.**

(8) **Field Stripcropping Not on the Contour—Water Erosion.**—Growing alternate strips of intertilled crops or small grain crops with grass or hay crops, provided: (1) the strips are approximately parallel and are laid out across the general slope; (2) the strips are approximately the same width; (3) the strips are not less than 3 rods nor more than 8 rods in width; (4) the crop stubble is left standing or a good stand of a winter cover crop is obtained; and (5) contour stripcropping is impracticable. Approval must not be given for this practice on fields containing over 40 acres.—**\$0.75 per acre.**



(9) **Field Stripcropping Not on the Contour—Wind Erosion.**—Growing alternate strips of intertilled crops or small grain crops with grass or hay crops, provided: (1) the strips are approximately parallel and are laid out at right angles to the prevailing winds or in a continuous S so that winds cannot blow parallel to the rows; (2) the strips are not less than 3 rods nor more than 15 rods in width; and (3) except on the strip adjacent to and on the leeward side of a belt of planted coniferous trees at least 12 feet high, the crop stubble must be left standing or a good stand of a winter cover crop must be obtained.—**\$0.50 per acre.**

(10) **Establishing Sod Waterways.**—Establishing sod waterways in a waterway channel on any cropland or in cultivated orchards where a permanent vegetative cover is necessary to carry excess run-off. The channel of the waterway must have a minimum width of 10 feet at the narrowest point and must contain a good growth of perennial grasses.—**\$0.75 per 1,000 square feet.**

(11) **Establishing Terrace Outlets.**—Establishing terrace outlets by shaping, construction of necessary check dams, and seeding or sodding. All outlets must be constructed to conform with the minimum specifications required by the State Committee.—**\$0.75 per 1,000 square feet.**

(12) **Construction or Enlargement of Open Farm Drainage Ditches.**—Construction or enlargement of farm ditches, including lateral and lead ditches, for which proper outlets are provided and adequate provision is made for the entrance of water into and out of the ditches. The ditches must have sufficient capacity to remove the normal excess surface water. No credit may be given for ditches constructed or maintained by a drainage district, or for material moved in cleaning the ditch.—**\$0.08 per cubic yard of material moved, but not in excess of \$8.00 per 100 linear feet.**

(13) **Excavation of Ditches for Tile Drainage.**—Excavation for the installation of tile drains provided: (1) the tile is of adequate size; (2) the tile line is to be laid at a minimum depth of 3 feet on mineral soils, and a minimum depth of 4 feet in peat soils; (3) adequate outlets are provided; and (4) no part of the tile line is to be used for any other purpose than the draining of agricultural land.—**\$0.40 per rod.**

(14) **Diversion Terraces.**—Construction of diversion terraces which must meet the following minimum specifications: (1) the maximum distance between terraces shall not be in excess of 400 feet; (2) the channel cross section shall not be less than 15 square feet; (3) the grade in the channel must not be in excess of 1 percent; (4) the terrace ridge, channel, and the area one rod above the channel must be maintained in permanent sod; and (5) adequate outlets must be provided.—**\$0.08 per cubic yard of material moved, but not in excess of \$8.00 per 100 linear feet.**

(15) **Dams for Erosion Control.**—Construction of earthen, concrete, or masonry dams for the control of erosion in gullies and large waterways. The county committee must specify for each project the minimum specifications which must be met to provide adequate protection against destruction of the dam by abnormal run-off and sufficient retardation of flood waters to prevent erosion below the dam.

(a) For earth moved.—**\$0.10 per cubic yard.**

(b) For concrete.—**\$9.00 per cubic yard.**

(c) For rubble masonry.—**\$6.00 per cubic yard.**

(16) **Go-Down Crops on Orchard or Commercial Vegetable Land.**—Protecting the soil from wind and water erosion by permitting the following crops to remain on the land until the spring of 1947: Sudan grass, sweet sorghum, millet, small grains, or soybeans. A good vegetative growth must be obtained and the crop must not be pastured, or harvested for hay, seed, or forage.—**\$1.50 per acre.**

(17) **Green Manure Crops.**—Disking or plowing under a good stand and a good growth of the following crops. If the land is subject to erosion and the green manure is turned under in the fall, the land must be protected by a winter cover crop.—**\$1.50 per acre.**

(a) Oats, barley, wheat, or soybeans, in orchards or commercial vegetable land.

(b) 1945 fall seedings of winter rye and winter vetch.

(c) Buckwheat.

(d) Sweet Clover.

(e) Alsike or Red Clover turned under in the fall of 1946.

(18) **Pasture Establishment.**—Complete pasture establishment on cropland or land now classified as noncrop open pasture by carrying out all of the following: (1) preparing a satisfactory seedbed by plowing, disking, or harrowing; (2) applying the necessary amounts of lime and fertilizer; (3) making a seeding of one of the pasture mixtures listed below; (4) delaying grazing until the new seeding has made a good growth; controlling grazing during the remainder of the season, and removing the livestock early enough in the fall to permit the pasture to make a good growth before winter; and (5) mowing the weeds a sufficient number of times to prevent seed formation and control their growth. Credit for the lime and fertilizer applied may be given under Practices (1) or (2).

(a) 4 pounds of timothy, 3 pounds of alsike, and 6 pounds of red clover.—**\$2.25 per acre.**

(b) 6 pounds of brome grass, 6 pounds of alfalfa, and 4 pounds of red clover.—**\$4.00 per acre.**

(c) 7 pounds of brome grass and 7 pounds of alfalfa.—**\$3.00 per acre.**

(d) 3 pounds of timothy, 6 pounds of alfalfa, and 4 pounds of red clover.—**\$3.00 per acre.**

(e) 4 pounds of timothy and 7 pounds of reeds canary grass.—**\$2.25 per acre.**

(f) For preparation of the seed bed.—**\$0.75 per acre.**

(19) **Eradication of Perennial Noxious Weeds on Crop Land.**—Eradication of seriously infested plots of the following weeds: Creeping jenny, leafy spurge, Canada thistle, and quack grass. Payment for this practice may be approved only on farms where approved weed control measures are being carried out on all adjacent infested farms and contiguous land where the infestation is limited to a single farm, or where the county committee determines there is no likelihood of reinfestation. Clean tillage operations must be begun prior to July 15, and must be repeated every 14 days, except for quack grass which must be cultivated every 8 days over a 90-day period. No crop may be taken from the land but the weeds may be cut and removed before tillage is begun.

(a) For sodium chlorate or other chemicals, approved by the State Committee.—**\$0.06 per pound.**

(b) For continuous clean tillage.—**\$5.00 per acre.**

(20) **Sanding Cranberry Bogs.**—Applying sand, free from stones or loam, to a depth of at least one-half inch, on fruiting cranberry bogs.—**\$5.00 per acre.**

(21) **Tree Planting.**—Planting trees for forestry purposes, gully control or windbreak in accordance with good tree culture. The site and species of trees to be planted must have the approval of the county committee. The plantings must be protected from fire and grazing. The following species may be approved provided they are adapted to the particular soil type, climatic conditions, moisture conditions, and site: Norway pine, black spruce, sugar maple, willow (gully control only), basswood, green ash, white pine, cottonwood, northern white cedar, jack pine, white spruce, yellow birch, yellow poplar, American elm, white ash, Norway spruce and black locust.

(a) For forestry purposes.—**\$0.75 per 100 trees**, but not in excess of \$7.50 per acre.

(b) For gully control.—**\$0.75 per 100 trees**, but not in excess of \$7.50 per acre.

(c) For windbreaks.—**\$2.00 per 100 trees.**

(22) **Maintaining a Stand of Trees in a Windbreak or Shelter-belt.**—Maintaining a stand of trees, planted between January 1, 1941, and January 1, 1946, by at least 2 cultivations during the growing season to destroy any grasses established around the trees, and by replacing missing trees so that at least 80 percent of the original planting is represented by living trees. The planting must be protected from fire and grazing during the entire program year.—**\$3.00 per acre.**

#### CUT-OVER AREA PRACTICES

The cut-over area includes the following counties: Ashland, Barron, Bayfield, Burnett, Chippewa, Clark, Door, Douglas, Dunn, Eau Claire, Florence, Forest, Iron, Langlade, Lincoln, Marathon, Marinette, Oconto, Oneida, Pepin, Pierce, Polk, Price, Rusk, St. Croix, Sawyer, Shawano, Taylor, Vilas, and Washburn.

(23) **Clearing Land for Tillage on Farms with Less than 60 Acres of Cropland.**—Clearing land and preparing it for the growing of a crop by removing all loose stones, stumps, underbrush, forest tree growth, and leveling hummocks. Approval must not be given where the land to be cleared is now supporting a stand of merchantable timber, where it is clear that definite erosion hazards will result, where it appears that it would be necessary to remove large quantities of stones annually, where the land is not reasonably good, or where drainage problems will not be corrected before the end of the program year. Tracts to be approved for credit must be part of or near an operating farm, or part of or near another tract of sufficient size to constitute a self-supporting farming unit. No credit will be given if the estimated cost of clearing is less than \$2.00 per acre or if the land is not plowed prior to January 1, 1947.—**\$10.00 per acre.**

(24) **Clearing Land for Pasture.**—Clearing land for the establishment of pasture by uprooting and removing all shrubs and forest tree growth, leveling hummocks, and carrying out an adequate system of mowing and removing loose stones. Tree growth sufficient to provide shade for livestock may be left in the pasture area. Approval must not be given unless the county committee determines that the pasture when established will be capable of carrying at least one animal unit

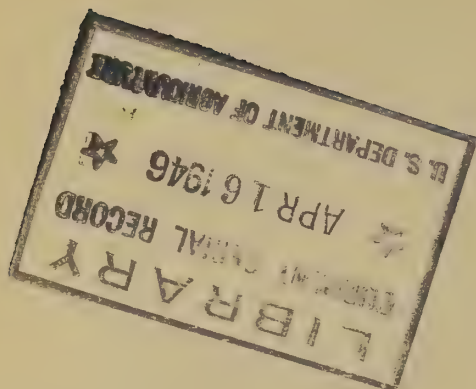


for each two acres during a pasture season of at least four months. Tracts which are not a part of an operating unit must not be approved. Credit will not be given unless liming materials, fertilizer, and seed are applied in necessary amounts. Credit for these materials may be given under Practices (1), (2), or (25). No credit will be given if the estimated cost of clearing is less than \$10.00 per acre.—**\$5.00 per acre.**

(25) **Pasture Seeding on Land Cleared for Pasture.**—Seeding a mixture of red clover, alsike clover and timothy (not more than  $\frac{1}{3}$  may be timothy) on land which has been cleared for pasture. The land must be disked or springtoothed to prepare a good seed bed where practical.—**\$0.20 per pound of seed.**

(26) **Filling and Leveling Potholes on Cropland.**—The potholes must be filled and leveled so that normal farming operations may be carried out on the entire field. Where necessary, farm ditches to provide adequate drainage must be required.—**\$0.05 per cubic yard of material** used in filling the depression.





UNITED STATES DEPARTMENT OF AGRICULTURE  
 PRODUCTION AND MARKETING ADMINISTRATION  
 FIELD SERVICE BRANCH—WASHINGTON, D. C.

1946 AGRICULTURAL CONSERVATION PROGRAM

NORTH CENTRAL REGION

SUPPLEMENT 1 TO WISCONSIN COMMITTEEMAN'S  
 PRACTICE HANDBOOK

## 1946 CREDIT RATES FOR LIMING MATERIALS

Following are the materials for which the credit rates are the same throughout the State:

Type of material	Credit rate
Calcareous Clay -----	\$0.50 per cu. yd.
Eggshells -----	1.00 per ton.
Hydrated Lime -----	4.00 per ton.

The following are the credit rates for the other liming materials for which credit will be given in your county. The rates for limestone, carbide refuse, byproduct of lead mines, and burnt lime waste are on a ton basis, and the rates for marl, paper mill refuse lime, and wood ashes are on a cubic yard basis.

## ADAMS COUNTY

Township	Lime- stone	Marl	Paper mill refuse	Township	Lime- stone	Marl	Paper mill refuse
Adams-----	\$1.80	\$0.90	\$0.90	New Chester-----	\$1.70	\$0.90	\$0.90
Big Flat-----	1.90	1.00	1.00	New Haven-----	1.80	.90	.90
Colburn-----	1.80	.90	.90	Preston-----	1.70	.90	.90
Dell Prairie-----	1.80	.90	.90	Quincy-----	2.00	1.00	1.00
Easton-----	1.90	1.00	1.00	Richfield-----	1.60	.80	.80
Jackson-----	1.90	1.00	1.00	Rome-----	2.00	1.00	1.00
Leola-----	1.80	.90	.90	Springville-----	2.00	1.00	1.00
Lincoln-----	1.60	.80	.80	Strongs Prairie-----	1.80	.90	.90
Monroe-----	1.90	1.00	1.00				

## ASHLAND COUNTY

Township	Limestone	Wood ashes	Marl	Carbide refuse
All townships-----	\$2.30	\$0.80	\$0.80	\$1.70

## BARRON COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Almena-----	\$2.20	Dallas-----	\$2.10	Rice Lake-----	\$2.20
Arland-----	2.10	Dovre-----	2.20	Sioux Creek-----	2.20
Barron-----	2.20	Doyle-----	2.20	Stanford-----	2.20
Bear Lake-----	2.20	Lakeland-----	2.30	Stanley-----	2.20
Cedar Lake-----	2.30	Maple Grove-----	2.20	Summer-----	2.20
Chetek-----	2.20	Maple Plain-----	2.30	Turtle Lake-----	2.10
Clinton-----	2.20	Oak Grove-----	2.20	Vance Creek-----	1.90
Crystal Lake-----	2.20	Prairie Farm-----	1.90		
Cumberland-----	2.30	Prairie Lake-----	2.20		

## BAYFIELD COUNTY

Township	Limestone
All townships	\$2.30

## BROWN COUNTY

All townships	\$1.40
---------------	--------

## BUFFALO COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Alma	\$1.60	Gilmanton	\$1.40	Mondovi	\$1.40
Belvidere	1.50	Glencoe	1.40	Montana	1.50
Buffalo	1.60	Lincoln	1.50	Naples	1.50
Canton	1.50	Maxville	1.50	Nelson	1.60
Cross	1.50	Milton	1.50	Waumandee	1.50
Dover	1.50	Modena	1.60		

## BURNETT COUNTY

Township	Limestone	Wood ashes	Marl	Township	Limestone	Wood ashes	Marl
Anderson	\$2.50	\$1.00	\$1.00	Rusk	\$2.50	\$1.00	\$1.30
Blaine	2.50	1.00	1.30	Sand Lake	2.50	1.00	1.30
Daniels	2.50	1.00	1.20	Scott	2.50	1.00	1.30
Dewey	2.50	1.00	1.30	Siren	2.50	1.00	1.30
Grantsburg	2.50	1.00	1.30	Swiss	2.50	1.00	1.20
Jackson	2.50	1.00	1.30	Trade Lake	2.50	1.00	1.00
La Follette	2.50	1.00	1.20	Union	2.50	1.00	1.20
Lincoln	2.50	1.00	1.20	Weblake	2.50	1.00	1.30
Meenon	2.50	1.00	1.30	West Marshland	2.50	1.00	1.30
Oakland	2.50	1.00	1.30	Wood River	2.50	1.00	1.00
Roosevelt	2.50	1.00	1.00				

## CALUMET COUNTY

Township	Limestone
All townships	\$1.60

## CHIPPEWA COUNTY

Township	Limestone	Marl	Township	Limestone	Marl
Anson	\$2.00	\$1.00	Goetz	\$2.20	\$1.00
Arthur	2.20	1.00	Hallie	1.80	.90
Auburn	1.90	1.00	Holcombe	2.40	1.00
Birch Creek	2.40	1.00	Howard	1.80	.90
Bloomer	1.90	1.00	LaFayette	1.90	1.00
Cleveland	2.30	1.00	Ruby	2.50	1.00
Colburn	2.40	1.00	Sampson	2.40	1.00
Cooks Valley	1.90	1.00	Sigel	2.10	1.00
Delmar	2.20	1.00	Tilden	1.80	.90
Eagle Point	2.00	1.00	Wheaton	1.80	.90
Edson	2.20	1.00	Woodmohr	1.90	1.00
Estella	2.30	1.00			

## CLARK COUNTY

Township	Limestone	Wood ashes	Paper mill refuse	Carbide refuse
All townships	\$2.20	\$0.90	\$1.10	\$1.50

## COLUMBIA COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Arlington	\$1.30	Hampden	\$1.30	Otsego	\$1.20
Caledonia	1.70	Leeds	1.30	Pacific	1.30
Columbus	1.30	Lewiston	1.70	Randolph	1.30
Courtland	1.30	Lodi	1.30	Scott	1.30
Dekorra	1.30	Lowville	1.20	Springvale	1.20
Fort Winnebago	1.40	Marcellon	1.30	West Point	1.50
Fountain Prairie	1.30	Newport	1.70	Wyocena	1.20

## CRAWFORD COUNTY

Township	Limestone
All townships	\$1.50

## DANE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Albion	\$1.40	Dunkirk	\$1.40	Roxbury	\$1.50
Berry	1.20	Dunn	1.30	Rutland	1.10
Black Earth	1.20	Fitchburg	1.20	Springdale	1.00
Blooming Grove	1.40	Madison	1.10	Springfield	1.40
Blue Mounds	1.00	Mazomanie	1.40	Sun Prairie	1.30
Bristol	1.40	Medina	1.40	Vermont	1.10
Burke	1.00	Middleton	1.00	Verona	1.00
Christiana	1.40	Montrose	1.10	Vienna	1.40
Cottage Grove	1.30	Oregon	1.10	Westport	1.20
Cross Plains	1.10	Perry	1.00	Windsor	1.20
Dane	1.40	Pleasant Springs	1.40	York	1.40
Deerfield	1.40	Prinrose	.90		

## DODGE COUNTY

Township	Limestone
All townships	\$1.50

## DOOR COUNTY

All townships	\$1.80
---------------	--------

## DOUGLAS COUNTY

Township	Limestone	Paper mill refuse
All townships	\$2.60	\$1.30

## DUNN COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Colfax	\$1.70	New Haven	\$1.70	Spring Brook	\$1.60
Dunn	1.60	Otter Creek	1.60	Stanton	1.60
Eau Galle	1.60	Peru	1.60	Tainter	1.60
Elk Mound	1.60	Red Cedar	1.60	Tiffany	1.60
Grant	1.70	Rock Creek	1.70	Weston	1.60
Hay River	1.60	Sand Creek	2.00	Wilson	1.90
Lucas	1.60	Sheridan	1.80		
Menomonie	1.50	Sherman	1.50		

## EAU CLAIRE COUNTY

Bridge Creek	\$2.10	Lincoln	\$2.00	Union	\$1.70
Brunswick	1.70	Ludington	2.10	Washington	1.80
Clear Creek	1.70	Otter Creek	1.80	Wilson	2.20
Drammen	1.50	Pleasant Valley	1.70		
Fairchild	2.10	Seymour	1.90		

## FLORENCE COUNTY

Township	Limestone	Marl
All townships	\$2.50	\$0.90



## FOND DU LAC COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Alto.....	\$1.30	Empire.....	\$1.40	Oakfield.....	\$1.40
Ashford.....	1.50	Fond du Lac.....	1.40	Osceola.....	1.50
Auburn.....	1.60	Forest.....	1.50	Ripon.....	1.30
Byron.....	1.30	Friendship.....	1.40	Rosedale.....	1.30
Calumet.....	1.50	Lamartine.....	1.40	Springvale.....	1.50
Eden.....	1.40	Marshfield.....	1.50	Taycheedah.....	1.50
Eldorado.....	1.50	Metomen.....	1.30	Waupun.....	1.40

## FOREST COUNTY

Township	Limestone
All townships.....	\$2.20

## GRANT COUNTY

Township	Limestone	By-product of lead mine
All townships.....	\$1.10	\$1.10

## GREEN COUNTY

Township	Limestone
All townships.....	\$1.10

## GREEN LAKE COUNTY

Township	Lime- stone	Marl	Township	Lime- stone	Marl
Berlin.....	\$1.30	\$0.70	Manchester.....	\$1.30	\$0.70
Brooklyn.....	1.40	.70	Marquette.....	1.30	.70
Green Lake.....	1.30	.70	Princeton.....	1.30	.70
Kingston.....	1.30	.70	St. Marie.....	1.40	.70
Mackford.....	1.30	.70	Seneca.....	1.40	.70

## IOWA COUNTY

Township	Limestone	By-produce of lead mine
All townships.....	\$1.10	\$1.10

## IRON COUNTY

Township	Limestone
All townships.....	\$2.50

## JACKSON COUNTY

Township	Lime- stone	Paper mill refuse	Township	Lime- stone	Paper mill refuse
Adams.....	\$2.20	-----	Hixton.....	\$1.90	-----
Albion.....	2.00	-----	Irving.....	1.80	-----
Alma.....	2.10	-----	Knapp.....	2.40	-----
Bear Bluff.....	2.40	-----	Komensky.....	2.40	-----
Brockway.....	2.40	-----	Manchester.....	2.30	-----
City Point.....	2.40	\$1.20	Melrose.....	1.60	-----
Cleveland.....	1.90	-----	Millston.....	2.30	-----
Curran.....	1.80	-----	North Bend.....	1.60	-----
Franklin.....	1.80	-----	Northfield.....	1.90	-----
Garden Valley.....	2.00	-----	Springfield.....	1.80	-----
Garfield.....	1.80	-----			

## JEFFERSON COUNTY

Township	Limestone
All townships.....	\$1.40

## JUNEAU COUNTY

Township	Lime-stone	Paper mill refuse	Township	Lime-stone	Paper mill refuse
Armenia	\$1.80	\$0.90	Lisbon	\$1.50	\$0.80
Clearfield	1.50	.80	Lyndon	1.50	.80
Cutler	1.80	.90	Marion	1.50	.80
Finley	1.80	.90	Necedah	1.80	.90
Fountain	1.50	.80	Orange	1.50	.80
Germantown	1.50	.80	Plymouth	1.50	.80
Kildare	1.50	.80	Seven Mile Creek	1.50	.80
Kingston	1.80	.90	Summit	1.50	.80
Lemonweir	1.50	.80	Wonewoc	1.50	.80
Lindina	1.50	.80			

## KENOSHA COUNTY

Township	Limestone
All townships	\$2.00

## KEWAUNEE COUNTY

All townships	\$1.70
---------------	--------

## LA CROSSE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Bangor	\$1.40	Farmington	\$1.60	Onalaska	\$1.50
Barre	1.50	Greenfield	1.50	Shelby	1.60
Burns	1.40	Hamilton	1.60	Washington	1.40
Campbell	1.60	Holland	1.50		

## LAFAYETTE COUNTY

Township	Limestone	By-product of lead mine
All townships	\$1.10	\$1.10

## LANGLADE COUNTY

Township	Lime-stone	Wood ashes	Marl	Township	Lime-stone	Wood ashes	Marl
Ackley	\$2.40	\$1.00	\$1.20	Peck	\$2.40	\$1.00	\$1.20
Ainsworth	2.50	1.00	1.20	Polar	2.40	1.00	.80
Antigo	2.30	.90	1.00	Price	2.50	1.00	1.00
Elcho	2.50	1.00	1.30	Rolling	2.30	.90	1.00
Evergreen	2.40	1.00	.90	Summit	2.50	1.00	1.30
Langlade	2.50	1.00	1.20	Upham	2.50	1.00	1.30
Neva	2.40	1.00	1.20	Vilas	2.50	1.00	1.30
Norwood	2.30	.90	.80	Wolf River	2.40	1.00	.90
Parrish	2.50	1.00	1.30				

## LINCOLN COUNTY

Township	Lime-stone	Paper mill refuse	Wood ashes	Township	Lime-stone	Paper mill refuse	Wood ashes
Birch	\$2.50	\$1.00	\$1.00	Rock Falls	\$2.50	\$1.00	\$1.00
Bradley	2.50	.70	1.00	Russell	2.50	1.20	1.00
Corning	2.50	1.20	1.00	Schley	2.50	1.20	1.00
Harding	2.50	1.10	1.00	Scott	2.50	1.10	1.00
Harrison	2.50	1.10	1.00	Skanawan	2.50	.80	1.00
King	2.50	.90	1.00	Somo	2.50	1.30	1.00
Merrill	2.50	1.00	1.00	Tomahawk	2.50	.90	1.00
Pine River	2.50	1.20	1.00	Wilson	2.50	.90	1.00

## MANITOWOC COUNTY

Township	Limestone	Burnt lime waste
All townships-----	\$1.60	\$1.00

## MARATHON COUNTY

Township	Lime-stone	Paper mill refuse	Wood ashes	Marl	Township	Lime-stone	Paper mill refuse	Wood ashes	Marl
Bergen-----	\$2.40	\$0.90	\$1.00	\$1.20	Johnson-----	\$2.40	\$1.20	\$1.00	\$1.20
Berlin-----	2.40	1.20	1.00	1.20	Knowlton-----	2.40	.90	1.00	1.20
Bern-----	2.40	1.20	1.00	1.20	Kronen-				
Bevent-----	2.40	1.20	1.00	1.20	wetter-----	2.40	.80	1.00	1.20
Brighton-----	2.40	1.20	1.00	1.20	McMillan-----	2.40	1.20	1.00	1.20
Cassel-----	2.40	1.20	1.00	1.20	Maine-----	2.40	1.20	1.00	1.20
Cleveland-----	2.40	1.20	1.00	1.20	Marathon-----	2.40	1.10	1.00	1.20
Day-----	2.40	1.20	1.00	1.20	Mosinee-----	2.40	.90	1.00	1.20
Easton-----	2.40	1.20	1.00	1.20	Norrie-----	2.40	1.20	1.00	1.20
Eau Pleine-----	2.40	1.20	1.00	1.20	Plover-----	2.40	1.20	1.00	1.20
Eldron-----	2.40	1.20	1.00	1.20	Reid-----	2.40	1.10	1.00	1.20
Emmet-----	2.40	1.00	1.00	1.20	Reitbrock-----	2.40	1.20	1.00	1.20
Frankfort-----	2.40	1.20	1.00	1.20	Rib Falls-----	2.40	1.20	1.00	1.20
Franzen-----	2.40	1.20	1.00	1.20	Rib Moun-				
Green Val-					tain-----	2.40	1.20	1.00	1.20
ley-----	2.40	1.10	1.00	1.20	Ringle-----	2.40	1.20	1.00	1.20
Guenther-----	2.40	1.10	1.00	1.20	Spencer-----	2.40	1.20	1.00	1.20
Halsey-----	2.40	1.20	1.00	1.20	Stettin-----	2.40	1.20	1.00	1.20
Hamburg-----	2.40	1.20	1.00	1.20	Texas-----	2.40	1.20	1.00	1.20
Harrison-----	2.40	1.20	1.00	1.20	Wausau-----	2.40	1.20	1.00	1.20
Hewitt-----	2.40	1.20	1.00	1.20	Weston-----	2.40	1.20	1.00	1.20
Holton-----	2.40	1.20	1.00	1.20	Wien-----	2.40	1.20	1.00	1.20
Hull-----	2.40	1.20	1.00	1.20					

## MARINETTE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Amberg-----	\$2.10	Grover-----	\$1.80	Porterfield-----	\$1.80
Athelstane-----	2.20	Lake-----	1.80	Pound-----	2.00
Beaver-----	2.00	Middle Inlet-----	2.00	Silver Cliff-----	2.20
Beacher-----	2.20	Niagara-----	2.40	Stephenson-----	2.00
Dunbar-----	2.40	Pembine-----	2.20	Wagner-----	1.80
Goodman-----	2.40	Peshtigo-----	1.70	Wausaukee-----	2.00

## MARQUETTE COUNTY

Township	Lime-stone	Marl	Paper mill refuse	Township	Lime-stone	Marl	Paper mill refuse
Buffalo-----	\$1.30	\$0.70	\$0.70	Neshkoro-----	\$1.70	\$0.80	\$0.80
Crystal Lake-----	1.60	.80	.80	Newton-----	1.60	.80	.80
Douglas-----	1.70	.80	.80	Oxford-----	1.70	.80	.80
Harris-----	1.70	.80	.80	Packwaukee-----	1.60	.80	.80
Mecan-----	1.60	.80	.80	Shields-----	1.60	.80	.80
Montello-----	1.50	.80	.80	Springfield-----	1.40	.70	.70
Moundville-----	1.50	.80	.80	Westfield-----	1.50	.80	.80

## MILWAUKEE COUNTY

Township	Limestone
All townships-----	\$1.70

## MONROE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Adrian-----	\$1.70	Lafayette-----	\$1.40	Ridgeville-----	\$1.70
Angelo-----	1.40	LaGrange-----	1.70	Scott-----	1.90
Byron-----	1.80	Leon-----	1.40	Sheldon-----	1.60
Clifton-----	1.40	Lincoln-----	1.90	Sparta-----	1.40
Glendale-----	1.40	Little Falls-----	1.70	Tomah-----	1.60
Grant-----	1.90	New Lyme-----	1.70	Wellington-----	1.40
Greenfield-----	1.80	Oakdale-----	1.60	Wells-----	1.40
Jefferson-----	1.40	Portland-----	1.40	Wilton-----	1.60

## OCONTO COUNTY

Township	Limestone
All townships-----	\$2.00

## ONEIDA COUNTY

All townships-----	\$2.50
--------------------	--------

## OUTAGAMIE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Black Creek-----	\$1.30	Ellington-----	\$1.30	Maine-----	\$1.40
Bovina-----	1.40	Freedom-----	1.50	Maple Creek-----	1.40
Buchanan-----	1.60	Grand Chute-----	1.50	Oneida-----	1.50
Center-----	1.40	Greenville-----	1.40	Osborn-----	1.40
Cicero-----	1.30	Hortonia-----	1.30	Seymour-----	1.40
Dale-----	1.30	Kaukauna-----	1.60	Vandenbrook-----	1.60
Deer Creek-----	1.50	Liberty-----	1.40		

## OZAUKEE COUNTY

Township	Limestone	Burnt lime waste
All townships-----	\$1.00	\$1.00

## PEPIN COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Albany-----	\$1.50	Lima-----	\$1.40	Waterville-----	\$1.50
Durand-----	1.40	Pepin-----	1.70	Waubeek-----	1.40
Frankfort-----	1.50	Stockholm-----	1.80		

## PIERCE COUNTY

Township	Limestone
All townships-----	\$1.70

## POLK COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Alden-----	\$1.50	Clear Lake-----	\$1.70	Lorain-----	\$1.90
Apple River-----	1.70	Eureka-----	1.70	Luck-----	1.80
Balsam Lake-----	1.60	Farmington-----	1.50	McKinley-----	1.80
Beaver-----	1.70	Garfield-----	1.50	Milltown-----	1.70
Black Brook-----	1.60	Georgetown-----	1.80	Osceola-----	1.50
Bone Lake-----	1.80	Johnstown-----	1.80	St. Croix Falls-----	1.60
Clam Falls-----	1.90	Laketown-----	1.80	Sterling-----	1.90
Clayton-----	1.70	Lincoln-----	1.60	West Sweden-----	1.90

## PORTAGE COUNTY

Township	Limestone	Marl	Paper mill refuse	Wood ashes	Township	Limestone	Marl	Paper mill refuse	Wood ashes
Alban-----	\$1.90	\$0.70	\$1.00	\$0.80	Hull-----	\$2.00	\$0.70	\$0.90	\$0.80
Almond-----	1.90	.70	1.00	.80	Lanark-----	1.70	.70	.90	.70
Amherst-----	1.70	.70	.90	.70	Linwood-----	2.10	.70	.90	.80
Belmont-----	1.70	.70	.90	.70	New Hope-----	1.90	.70	1.00	.80
Buena Vista-----	1.70	.70	.90	.70	Pine Grove-----	2.10	.70	.80	.80
Carson-----	2.10	.70	1.00	.80	Plover-----	2.00	.70	.90	.80
Dewey-----	2.10	.70	1.10	.80	Sharon-----	2.10	.70	1.10	.80
Eau Pleine-----	2.10	.70	1.00	.80	Stockton-----	1.90	.70	1.00	.80
Grant-----	2.10	.70	.70	.80					



## PRICE COUNTY

Township	Limestone	Wood ashes	Paper mill refuse	Carbide refuse
All townships	\$2.40	\$0.90	\$1.00	\$1.70

## RACINE COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Burlington	\$1.50	Mount Pleasant	\$1.60	Rochester	\$1.60
Caledonia	1.60	Norway	1.70	Waterford	1.60
Dover	1.60	Raymond	1.60	Yorkville	1.70

## RICHLAND COUNTY

Akan	\$1.50	Henrietta	\$1.70	Rock Bridge	\$1.50
Bloom	1.40	Ithaca	1.40	Sylvan	1.40
Buena Vista	1.50	Marshall	1.40	Westford	1.70
Dayton	1.50	Orion	1.40	Willow	1.70
Eagle	1.50	Richland	1.40		
Forest	1.40	Richwood	1.50		

## ROCK COUNTY

Township	Limestone
All townships	\$1.00

## RUSK COUNTY

Township	Limestone	Carbide refuse
All townships	\$2.40	\$1.90

## ST. CROIX COUNTY

Township	Limestone
All townships	\$1.70

## SAUK COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Baraboo	\$1.70	Greenfield	\$1.80	Sumpter	\$1.30
Bear Creek	1.40	Honey Creek	1.50	Troy	1.50
Dellona	1.50	Ironton	1.40	Washington	1.40
Delton	1.60	LaValle	1.50	Westfield	1.50
Excelsior	1.70	Merrimac	1.60	Winfield	1.60
Fairfield	1.70	Prairie du Sac	1.30	Woodland	1.50
Franklin	1.40	Reedsburg	1.60		
Freedom	1.60	Spring Green	1.40		

## SAWYER COUNTY

Township	Limestone
All townships	\$2.60

## SHAWANO COUNTY

Township	Limestone	Marl	Wood ashes	Township	Limestone	Marl	Wood ashes
Almon	\$1.70	\$0.70	\$0.60	Lessor	\$1.40	\$0.70	\$0.60
Angelica	1.40	.70	.60	Maple Grove	1.40	.70	.60
Aniwa	1.70	.70	.60	Morris	1.60	.70	.60
Bartelme	1.60	.70	.60	Navarino	1.40	.70	.60
Belle Plaine	1.40	.70	.60	Pella	1.50	.70	.60
Birnamwood	1.70	.70	.60	Red Springs	1.50	.70	.60
Fairbanks	1.60	.70	.60	Richmond	1.40	.70	.60
Germania	1.60	.70	.60	Seneca	1.50	.70	.60
Grant	1.60	.70	.60	Washington	1.40	.70	.60
Green Valley	1.40	.70	.60	Waukechon	1.40	.70	.60
Hartland	1.40	.70	.60	Wescott	1.40	.70	.60
Herman	1.50	.70	.60	Wittenberg	1.60	.70	.60
Hutchins	1.70	.70	.60				

## SHEBOYGAN COUNTY

Township	Limestone
All townships-----	\$1.70

## TAYLOR COUNTY

Township	Limestone	Carbide refuse
All townships-----	\$2.30	\$1.70

## TREMPEALEAU COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Albion-----	\$1.50	Dodge-----	\$1.50	Pigeon-----	\$1.60
Arcadia-----	1.30	Ettrick-----	1.50	Preston-----	1.50
Burnside-----	1.40	Gale-----	1.40	Sumner-----	1.60
Caledonia-----	1.50	Hale-----	1.50	Trempealeau-----	1.50
Chimney Rock-----	1.50	Lincoln-----	1.40	Unity-----	1.50

## VERNON COUNTY

Bergen-----	\$1.50	Greenwood-----	\$1.60	Stark-----	\$1.50
Christiana-----	1.40	Hamburg-----	1.40	Sterling-----	1.40
Clinton-----	1.40	Harmony-----	1.40	Union-----	1.70
Coon-----	1.40	Hillsboro-----	1.60	Viroqua-----	1.40
Forest-----	1.70	Jefferson-----	1.40	Webster-----	1.50
Franklin-----	1.40	Kickapoo-----	1.40	Wheatland-----	1.40
Genoa-----	1.40	Liberty-----	1.50	Whitestown-----	1.50

## VILAS COUNTY

Township	Limestone
All townships-----	\$2.60

## WALWORTH COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Bloomfield-----	\$1.60	LaGrange-----	\$2.00	Sugar Creek-----	\$1.50
Darien-----	1.00	Linn-----	1.40	Troy-----	2.10
Delavan-----	1.30	Lyons-----	1.70	Walworth-----	1.20
East Troy-----	1.90	Richmond-----	1.40	Whitewater-----	1.50
Geneva-----	1.70	Sharon-----	1.00		
Lafayette-----	2.00	Spring Prairie-----	1.70		

## WASHBURN COUNTY

Township	Lime- stone	Marl	Township	Lime- stone	Marl
Barronett-----	\$2.40	\$1.20	Gull Lake-----	\$2.40	\$1.20
Bashaw-----	2.40	1.20	Long Lake-----	2.40	1.20
Bass Lake-----	2.40	1.20	Madge-----	2.40	1.10
Beaver Brook-----	2.40	1.20	Minong-----	2.40	1.20
Birchwood-----	2.40	1.20	Sarona-----	2.40	1.20
Brooklyn-----	2.40	1.20	Spooner-----	2.40	1.10
Casey-----	2.40	1.00	Spring Brook-----	2.40	1.20
Chicog-----	2.40	1.20	Stinnett-----	2.40	1.20
Crystal-----	2.40	1.10	Stone Lake-----	2.40	1.20
Evergreen-----	2.40	1.00	Trego-----	2.40	1.10
Frog Creek-----	2.40	1.20			

## WASHINGTON COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Addison-----	\$1.60	Hartford-----	\$1.60	Trenton-----	\$1.60
Barton-----	1.40	Jackson-----	1.60	Wayne-----	1.60
Erin-----	1.60	Kewaskum-----	1.40	West Bend-----	1.50
Farmington-----	1.40	Polk-----	1.60		
Germantown-----	1.60	Richfield-----	1.60		



## WAUKESHA COUNTY

Township	Limestone	Township	Limestone	Township	Limestone
Brookfield	\$1.30	Merton	\$1.50	Pewaukee	\$1.30
Delafield	1.50	Mukwonago	1.50	Summit	1.50
Eagle	1.50	Muskego	1.40	Vernon	1.50
Genesee	1.50	New Berlin	1.50	Waukesha	1.30
Lisbon	1.50	Oconomowoc	1.50		
Menomonee	1.50	Ottawa	1.50		

## WAUPACA COUNTY

Township	Lime-stone	Marl	Wood ashes	Township	Lime-stone	Marl	Wood ashes
Bear Creek	\$1.50	\$0.70	\$0.60	Lind	\$1.40	\$0.70	\$0.60
Caledonia	1.20	.60	.50	Little Wolf	1.40	.70	.60
Dayton	1.50	.70	.60	Matteson	1.50	.70	.60
Dupont	1.50	.70	.60	Mukwa	1.30	.70	.50
Farmington	1.40	.70	.60	Royalton	1.40	.70	.60
Fremont	1.20	.60	.50	St. Lawrence	1.40	.70	.60
Harrison	1.70	.70	.60	Scandinavia	1.60	.70	.60
Helvetia	1.50	.70	.60	Union	1.50	.70	.60
Iola	1.60	.70	.60	Waupaca	1.40	.70	.60
Larrabee	1.50	.70	.60	Weyauwega	1.30	.70	.50
Lebanon	1.40	.70	.60	Wyoming	1.70	.70	.60

## WAUSHARA COUNTY

Township	Lime-stone	Marl	Paper mill refuse	Township	Lime-stone	Marl	Paper mill refuse
Aurora	\$1.20	\$0.60	\$0.60	Oasis	\$1.70	\$0.90	\$0.80
Bloomfield	1.50	.80	.80	Plainfield	1.70	.90	.80
Coloma	1.50	.70	.80	Poysippi	1.50	.80	.80
Dakota	1.60	.80	.80	Richford	1.60	.80	.80
Deerfield	1.60	.80	.80	Rose	1.70	.90	.80
Hancock	1.60	.80	.80	Saxeville	1.60	.80	.80
Leon	1.60	.80	.80	Springwater	1.60	.80	.80
Marion	1.50	.70	.80	Warren	1.30	.70	.70
Mount Morris	1.80	.80	.80	Wautoma	1.70	.80	.80

## WINNEBAGO COUNTY

Township	Limestone
All townships	\$1.30

## WOOD COUNTY

Township	Lime-stone	Paper mill refuse	Wood ashes	Township	Lime-stone	Paper mill refuse	Wood ashes
Arpin	\$2.20	\$1.00	\$0.90	Milladofe	\$2.20	\$1.10	\$0.90
Auburndale	2.20	1.00	.90	Port Edwards	2.20	.70	.90
Cameron	2.20	1.00	.90	Remington	2.20	1.00	.90
Cary	2.20	1.00	.90	Richfield	2.20	1.00	.90
Cranmoor	2.20	.70	.90	Rock	2.20	1.10	.90
Dexter	2.20	1.00	.90	Rudolph	2.20	1.00	.90
Grand Rapids	2.20	.80	.90	Saratoga	2.20	.80	.90
Hansen	2.20	1.00	.90	Seneca	2.20	1.00	.90
Hiles	2.20	1.00	.90	Sherry	2.20	1.00	.90
Lincoln	2.20	1.10	.90	Sigel	2.20	.90	.90
Marshfield	2.20	1.10	.90	Wood	2.20	1.00	.90

